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INDEX OF

MINING ENGINEERING LITERATURE

COMPRISING AN

INDEX OF MINING, METALLURGICAL, CIVIL, MECHANICAL,
ELECTRICAL AND CHEMICAL ENGINEERING
SUBJECTS AS RELATED TO MINING
ENGINEERING

ALSO

COSTS OF MINING AND METALLURGICAL OPERATIONS, ETC.

BY

WALTER R. CRANE, Ph.D.

DEAN OF THE SCHOOL OF MINES, AND PROFESSOR OF MINING, THE PENNSTLVANIA STATE COLLEGE, AUTHOR OF "A TEBATISE ON GOLD AND SILVER," ORE MINING METHODS," AND NUMEROUS ARTICLES ON MINING

> SECOND VOLUME FIRST THOUSAND

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PREFACE TO SECOND VOLUME OF INDEX

In order that an index may be valuable it must be added to from time to time, including references to the new material in the current technical literature and annual proceedings of societies. To this end the Index of Mining Engineering Literature has been enlarged by the preparation of an additional volume covering the list of publications indexed for the first volume, besides a number of other publications. Still other publications would have been incorporated in this volume of the Index had they been available.

The two special features that distinguish this Index from others are cross-references and multiple references. By the former is meant the reference to other subjects under which information can be obtained relative to the special subject in question; and by the latter is meant the breaking up of a paper or article into a number of references which are distributed under appropriate headings.

The special feature of the present volume of the Index is the list of references on cost which are distributed over and cover practically every phase of mining and metallurgical practice. These references to costs are particularly interesting and valuable to the practicing engineer.

As was stated in the former volume of the Index, the work has been the result of the unaided labor of the author, and all errors are, therefore, due to his oversight.

WALTER R. CRANE.

SCHOOL OF MINES,
THE PENNSYLVANIA STATE COLLEGE,
June 1, 1912.

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PUBLICATIONS INDEXED AND ABBREVIATIONS

JOURNALS, TRANSACTIONS AND PROCEEDINGS OF SOCIETIES

Am Jour. Min. - American Journal of Mining.

Coll. Engr — Colliery Engineer Coll Engr. & Met. Miner. — Colliery Engineer and Metal Miner.

Engineering, London.

E & M. J. — Engineering and Mining Journal.

J C M. I. — Journal of the Canadian Mining Institute

J. C. & M. Soc. S. A. — Journal of the Chemical and Metallurgical Society of South Africa.

J. W. Soc. E. — Journal of the Western Society of Engineers.

J M. Soc. N. S. - Journal of the Mining Society of Nova Scotia.

Min. Mag. (old series). — Mining Magazine. Min Mag. (new series). — Mining Magazine.

Min Mag., London. — Mining Magazine, London.

M. & M. - Mines and Minerals.

Min & Sci. Press. — Mining and Scientific Press.

- P. C. M. & M. Soc. S. A Proceedings of the Chemical, Mining and Metallurgical Society of South Africa
- P. E. Soc. W. Pa.—Proceedings of the Engineering Society of Western Pennsylvania.

P. Soc. P. E. E.—Proceedings of the Society for the Promotion of Engineering Education.

Sch. Mines Quart. - School of Mines Quarterly.

- T. A. I M. E Transactions of the American Institute of Mining Engineers.
- T Au I. M E.—Transactions of the Australian Institute of Mining Engineers

T I M E.—Transactions of the Institution of Mining Engineers.
T. I. M. & M.—Transactions of the Institute of Mining and Metallurgy.
T L S. M. I.—Transactions of the Lake Superior Mining Institute

T N. S I, M. & M. E — Transactions of the North Staffordshire Institute of Mining and Mechanical Engineers.

T. F C. M. I. — Transactions of the Federated Canadian Mining Institute. U. S. G. S. Publications. — United States Geological Survey Publications, except Water Supply Papers.

PUBLICATIONS INCOMPLETELY INDEXED

Reports of Surveys, Proceedings of Societies, etc.

Ann. Min. Rept. N. S. Wales. - Annual Mining Report of New South \mathbf{Wales} .

Cal. Miners' Assoc. Ann. — California Miners' Association Annual.

Columbia Engr. — Columbia Engineer.

P. I. C. E — Proceedings of the Institute of Civil Engineers.

Rept. Census Office, Mines and Quarries. — Report Census Office, Mines and Quarries.

Rept. Inspr. Mines Pa — Report of the Inspector of Mines of Pennsylvania. Rept. Zinc Comm. Canada - Report of the Commission Appointed to Investigate the Zinc Resources of British Columbia, etc.

Second Geol. Sur. Pa — Second Geological Survey of Pennsylvania.

The Mines of the West. - Raymond.

The Univ. Geol. Surv. of Kans. - The University Geological Survey of Kansas.

Univ of Ill Bull. — University of Illinois Bulletin. U. S. Bureau of Mines. — United States Bureau of Mines.

JOURNALS

Am Engr. & R R Jour — American Engineer and Railroad Journal. Coll Guard. — Colliery Guardian, London. Concrete and Constructional Engineering, London. Electrochemical Industry Eng. Mag. — Engineering Magazine. Eng. News — Engineering News. Eng. -Cont. — Engineering Contracting. Mining World.

Books

Anthracite Coal Industry, Roberts Aerial or Wire Rope Tramways, Willis-Taylor. Coll. Working and Management, Bulman and Redymayne. Diamond Drilling, Denny Earthwork and Its Cost, Gillette.

Gold Min. & Mill. W. Aus. — Gold Mining and Milling Western Australia. Charleton.

Kents' Mech. Engrs. Pocket-Book --- Kents' Mechanical Engineers' Pocket-Book.

Mech. Eng. of Coll. - Mechanical Engineering of Collieries, Futers.

Mine Building Construction. Miners Pocket-Book, Lock. Ore Dressing, Richards.

P. C. M. — Practical Coal Mining, Ed. W. S. Boulton.

R.R. Construction. — Railroad Construction, Webb. Sci. Am. Supp. — Scientific American Supplement. The Gold Mines of the Rand, Hatch and Chalmers.

The Witwatersrand Goldfields, Truscott.

The Mechanical Handling of Material, Jimmer.

Tin Deposits of the World.

Tunneling, Prelini. Well-Boring, Isler.

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- See also Coal Dust as an Explosive, Mine Fires, and Mine Explosions.
- MINE ACCIDENTS. By J. T. Quine. T. L S. M. I, vol. 14, p 71. 10; pages.
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- METAL-MINING FATALITIES IN IDAHO, FOR 1910. M. & M., vol. 31, p. 700. 1 column.
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- RESULTS OF INQUIRIES INTO RECENT MINE DISASTERS. By F. W. Parsons E. & M. J, vol. 85, p. 259. 14 columns. I.

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- DEATH FROM ACCIDENTS IN MINES. P. C. M. & M. Soc. S. A., vol 7, p. 171. 5 columns.
- FATAL ACCIDENTS IN COAL MINES. By F. L. Hoffman. E. & M J., vol. 85, p. 34. 8½ columns.
- FATAL ACCIDENTS IN COAL MINES OF AMERICA. By F. L. Hoffman. E. & M. J., vol 86, p. 1207. 12½ columns.
- FATAL ACCIDENTS IN COAL MINES OF NORTH AMERICA. By F. L. Hoffman E. & M. J., vol. 88, p 1253. 10 columns.
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- FATAL ACCIDENTS IN THE COAL MINES OF NORTH AMERICA By F L Hoffman. E & M. J., vol 90, p. 1313. 9\frac{2}{3} columns.
- DATA ON MORTALITY AND MORBIDITY OF MINERS By F. L. Hoffman. E & M. J, vol 89, p. 1321, 9½ columns; vol 90, p 23. 10 columns.
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Cause of Accidents

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- CAUSE OF ACCIDENTS M. & M, vol 31, p 410. 4 columns.
- CAUSES OF ACCIDENTS IN RAND MINES Min. & Sci. Press, vol. 97, p. 193. † column
- CAUSE OF MINE EXPLOSIONS. By James Ashworth. Colliery Engineer, vol. 16, p. 127.
- Instantaneous Outbursts of Gas in Shaft Sinking. E. & M. J., vol. 88, p 1271 1½ columns.
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- See also Methods of Firing Explosives and Tamping and Tamping Materials
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- Common Causes of Accidents from Explosives in Mines By J R. Godfrey. T. Au. I M E, vol. 9, p 30. 32 pages.
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- See also Methods of Firing Explosives.
- ACCIDENTS IN TRANSPORTING EXPLOSIVES M. & M, vol. 29, p. 381. 1½ columns
- See also HANDLING EXPLOSIVES.
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- See also Blasting in Mines and Explosives for Mining Purposes
- DANGERS ATTENDING USE OF ELECTRICITY IN COAL MINES. By J. Ashworth E & M. J., vol. 88, p. 123. 2½ columns.
- ELECTRIC SHOOKS AND FIRES IN MINES. E & M. J, vol. 87, p. 317. 12 columns.
- ELECTRIC SHOCKS IN MINES. By I. F. Walker. M & M., vol. 31, p. 493, 3\frac{1}{2} columns; p. 543, 3 columns; p. 637. 4 columns.
- DEATH FROM ELECTRIC SHOCK AT CLIFTON COLLIERY, ENGLAND. By S. F. Walker. E & M. J., vol. 88, p. 779. 3 columns. I.
- AN ACCIDENT CAUSED BY AN ELECTRIC COAL CUTTER. E & M. J., vol. 88, p. 452. 2 columns. I.

- CARELESSNESS WITH ELECTRICITY. E. & M. J., vol. 90, p. 726. 1 columns.
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- PECULIAR MINE ACCIDENT A Fire Resulting from Substituting Crude Petroleum for Car Lubricating Oil. By J Elliott. M. & M, vol. 29, p. 488. 1½ columns.
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- CARELESSNESS IN MINING: Cause of Accidents E. & M J., vol. 89, p. 526. \$\frac{3}{2}\$ column.
- CARELESSNESS IN MINES CAUSE OF ACCIDENTS. M. & M, vol. 30, p. 355. ½ column.
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- SELF-CONTAINED RESPIRATING APPARATUS IN MINES. By A. E. Davidson. M. & M., vol. 29, p 118. column.
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- EUROPEAN LAWS REGARDING BREATH-ING AFFARATUS. M. & M., vol 31, p. 413. ½ column.
- STATIONS. E. & M. J., vol 87, p 951. 2 columns.
- VINE RESCUE LABORATORY. By R. Y. Williams M. & M, vol. 29, p. 537 2 columns. I.
- An English Rescue Station. M. & M., vol. 29, p. 100. 3 columns. I.
- VINE RESCUE STATIONS AND MINE ACCIDENTS E. & M. J., vol. 89, p. 281. 4 columns.
- RESCUE STATION AT LEISENRING No. 1.

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- RESCUE STATIONS IN ILLINOIS COAL-MINING LOCALITIES. By R. Y. Williams J W. Soc. E, vol 15, p 655 23½ pages I
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Compensation for Injuries

- MINER'S ACCIDENT RELIEF FUND. E. & M J., vol. 90, p. 25. \(\frac{1}{2}\) column.
- COMPENSATION TO WORKERS FOR ACCIDENTAL INJURIES. By M. M. Duncan E. & M. J., vol. 88, p. 519.
- Compensation for Industrial Accidents By D. Ross. Min. & Sci. Press, vol. 101, p. 744. 5½ columns.
- Compensation to Workmen in Case of Injuries. By M M. Duncan. T L. S M. I., vol. 14, p. 47. 6 pages.
- Compensation for Injury. By R. P. Tarr. M. & M., vol. 31, p 410. 61 columns.
- Tax for Compensation to Injured. P C. M. & M Soc. S. A., vol 9, p. 246. Note.
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- Miner's Benefit Fund E & M. J., vol. 90, p. 1013. ½ column.
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- G. W. Traer. Mm. & So. Press, vol. 99, p. 717. 2 columns.
- ACCIDENT LIABILITY AND COMPENSA-TION. E & M. J., vol. 90, p. 23. 12 columns
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- Possibilities of a New Liability Law. By S. Reynolds. M. & M., vol 31, p. 532. 73 columns.
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- FIRST AID TO THE INJURED IN COAL MINES. By M. J. Shields
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- First Aid for Injured Spines. By T. C. Harvey. M. & M, vol. 31, p. 538 1½ columns. I.
- Suggestions for Organized Underground Ambulance Work. T. I. M. E., vol. 37, pp. 42-44, 218-223.
- FIRST-AID CORPS IN ALABAMA COAL MINES E & M. J, vol. 89, p 1166. 1 column.
- WILL FIRST AID CORPS LAST? M. & M., vol. 29, p 407. 1 column.
- Organization of First-Aid Corps. By M J. Shields M & M., vol. 29, p 379. 3½ columns
- First-Aid Work in New South Wales. M. & M, vol. 30, p. 366. § column.
- THE FIRST AID MOVEMENT. By H. H Stock. M. & M., vol 29, p 243. 11 columns. I.
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- METHODS OF RESUSCITATION P. C. M. & M. Soc. S. A., vol. 10, p. 303. 2 columns.
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- Apparatus for Conveying Wounded Men from Stopes. E. & M. J., vol. 89, p. 1263. 1 column. I.

- See also HEALTH OF MINERS.
- First-Aid Contest at Inkerman. M. & M., vol. 30, p. 225. 3 columns. I.
- FIRST-AID CONTEST. By C. A. Graves. M. & M., vol. 29, p. 172. 2 columns. I.
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- READING FIRST-AID FIELD DAY. By H. H. Stoek. M. & M, vol 30, p. 121. 4 columns. I.
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Falls of Roof and Walls in Mines

- Falls in Shafts: Shaft Accidents. By F. H. Wynne. T. I. M E, vol. 38, p. 653 18 pages.
- FALL OF LABORER DOWN THE RED JACKET SHAFT. E. & M. J., vol. 90, p 749 Note.
- WARRIOR RUN MINE ACCIDENT. M. & M., vol. 29, p. 121. 2 columns I.
- ACCIDENTS CAUSED BY FALL OF ROCK AND COAL. E & M J, vol. 88, p 412. ½ column.
- ACCIDENTS CAUSED BY FALLING ROCK IN METAL MINES. E. & M. J., vol. 87, p. 301. 12 columns
- SUMMARY OF THE "REPORT OF A COM-MITTEE APPOINTED BY THE ROYAL COMMISSION ON MINES TO INQUIRE INTO THE CAUSES OF AND MEANS OF PREVENTING ACCIDENTS FROM FALLS OF GROUND, UNDERGROUND HAUL-AGE, AND IN SHAFTS: Shaft Accidents. By F. H. Wynne. T. I. M. E., vol. 38, p. 653. 18 pages.
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Inundation in Mines

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- See also Cause of Accidents. See also Cost of Dams, etc.

Coal Dust as an Explosive Agent

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- VOLUMETRIC ESTIMATION OF LEAD. E. & M. J., vol 86, p. 77 1 column
- RAPID DETERMINATION OF LEAD IN CHILLED BLAST-FURNACE SLAGS By F S. Schrimerka E. & M. J., vol. 89, p. 467. 2½ columns.
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- CONTRIBUTIONS TO THE CHEMISTRY OF ZINC SMELTING. E. & M. J., vol. 88, p. 604. 1 column.
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- CHEMISTRY OF THE CYANIDE PROCESS. By W. H Seamon. M. & M., vol. 31, p. 689. 2½ columns.
- THE ESTIMATION OF SULPHO- AND FERROCYANIDES, ETC, IN CYANIDE SOLUTIONS CONTAINING COPPER. By L M. Green. T I. M & M, vol. 18, p. 59. 7 pages.
- Errors Due to the Presence of Potassium Iodide in Testing Cyanide Solutions for Protective Alkalinity. By B. Collingridge. T. I M. & M., vol. 19, p. 299. 12 pages.
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- RAPID ANALYSIS OF COMMERCIAL CY-ANIDE. By R. Bell. E & M. J., vol. 89, p. 1114. 3½ columns.
- METHOD FOR DETERMINING POTASSIUM IN SODIUM CYANIDE. By J. E. Clennel. E. & M. J., vol 89, p. 1309. 1 column.
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Coal Analysis

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- ANALYSES OF THE CLINTON IRON-ORE OF ALABAMA. T A I M. E, vol 40, p. 86. Table.
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COMPRESSED AIR IN MINING

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- SIMPLE PROBLEMS IN AIR-COMPRESSION By E A RIX Min & Sci Press, vol 96, p 394. 7½ columns
- Compressed Air Calculation Short Cuts By S B. Redfield E & M J, vol. 88, p. 1163. 3½ columns. D
- Storing Compressed Air in a Natural Rock Receiver. E & M J, vol. 89, p 406 $\,$ 1 column.
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- MOISTURE IN THE ATMOSPHERE AND ITS EFFECT ON THE OPERATION OF COMPRESSED AIR MACHINERY By H. M P. Murphy. Min. & Sci Press, vol. 97, p 257. 7½ columns. Tables.
- OIL HEATER FOR COMPRESSED AIR Mm. & Sci. Press, vol 100, p 929 1½ columns. I.
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- HIGH VS. LOW PRESSURE FOR COM-PRESSED AIR IN MINES. By Robt. B. Brinsmade. E. & M. J., vol. 85, p. 161. 3½ columns.
- Test on a Modern Air-Compressing Plant at the Long Tunnel Gold Mine, Walhalla, Australia. By E. J. Rigby. T. Au. I. M. E., vol. 5, p. 259. 17 pages. I.

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- INEFFICIENCY OF COMPRESSED AIR SYSTEM, RAND MINES E. & M J, vol 85, p. 549. 1½ columns
- THE TRANSMISSION OF POWER BY COMPRESSED AIR IN MINES. By R. W. Chapman T. Au I M E., vol. 10, p. 309. 17 pages.
- See also Power Transmission, Etc.
- See also Compressed Air Pumping.
- See also CYANIDING GOLD, ETC, and COST OF POWER

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- Two-stage Air-lift Compressor Min. Mag, vol 4, p. 141. 1 column. I.
- CENTRIFUGAL AIR COMPRESSOR. M. & M., vol. 29, p. 279. 11 columns. I.
- TURBOBLOWERS AND COMPRESSORS. M. & M., vol. 31, p. 285. 3 columns. I.

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- A CENTRAL COMPRESSED-AIR SCHEME Min. & Sci. Press, vol. 97, p. 537. 1½ columns.
- DESCRIPTION OF THE COMPRESSED ARE ENGINE AT GOVAN COLLIERY By W. C. Randolph Min. Mag, vol. 9, p 51. 2½ pages.
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Hydraulic Air Compression and Compressors

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General

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CONCENTRATION

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- CONCENTRATION METHODS EMPLOYED IN AUSTRALIA. T. Au. I. M. E., vol. 12, p. 105. 26 pages Flow sheets.
- ORE CONCENTRATION. P. C. M. & M. Soc. S. A., vol. 8, p 393. 2 columns.
- ON DRESSING OF ORES. Min Mag, vol. 9, p. 56 4 pages; vol. 8, p. 535, 3 pages.
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- THE HAZELTON PLUNGER JIG. M & M., vol 31, p. 621. 2 columns. I.
- JIGS EMPLOYED AT THE CŒUR D'ALENE MILLS E & M J, vol. 89, p 375. 7½ columns. I.
- BULL JIG ROUGHER IN A JOPLIN ZINC MILL. By L L Wittich. E & M. J., vol. 89, p. 1214. 1 column I.
- THE JARVIS HAND-JIG T. A I. M. E, vol. 39, p. 461. 8 pages. I.
- CONSTRUCTION AND OFFRATION OF HAND JIGS E. & M J, vol. 89, p. 1265 2½ columns. I.
- HAND JIGS USED IN SOUTH AFRICAN TIN FIBLDS E & M J, vol. 89, p. 471. ½ column. I.
- Construction of Hand Jigs. Min. & Sci. Press, vol. 95, p 557. 1 column. I.
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- THE HAND JIG IN PRACTICE By C. N. Nelson. E. & M. J, vol 87, p. 910. 2 columns. I.
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- THE RICHARDS PULSATOR JIG. By R. L. Herrick. M. & M., vol. 29, p. 122. 4 columns. I.
- THE PULSATING PLUNGER JIG. T. I. M. & M., vol. 18, p. 2. 23 pages. I.,

- THE SEPARATION OF METALLIC ORES BY JIGGING. By A. Taylor. T. I M. & M, vol. 18, p. 2. 23 pages. I.
- Investigation on Jigging. By R P Jarvis. T. A. I M. E, vol 39, p 451. 70 pages. D.
- Wooden Jig Grates in the Joplin District. By O. Ruhl and F. Sansom. E. & M. J., vol. 88, p. 1025. 3½ columns I.
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- DEVICE TO REDUCE TOP WATER ON JIGS By J. L. Bruce. E & M. J., vol. 90, p. 399. 1 column. I.

Hand Dressing, Sorting

- Hand-Picking Ores in Sardinia T. A. I. M. E., vol. 39, p. 79. ½ page
- SORTING ORE BY HAND. By L D. Huntoon E. & M. J., vol 88, p. 964. 3\frac{1}{3} columns.
- Hand Sorting of Ore. E. & M. J., vol. 89, p. 5. ½ column.
- Sorting Turquoise in New Mexico. E & M. J., vol 86, p. 845. 1½ columns.
- ORE SORTING IN MEXICO. E. & M. J, vol. 85, p 704. 1 column.
- Surface and Underground Sorting. P C. M. & M. Soc S A, vol. 7, p. 367. 1 column
- ORE SORTING AT THE CABRESTANTE MINES, SANTA BARBARA, MEXICO. By C. T. Rice. E. & M. J, vol. 86, p 464. 6½ columns I.
- SORTING ORE AT THE NEW KLEINFON-TEIN MILL, TRANSVAAL, SOUTH AFRICA. By E. J. Way. E. & M. J, vol. 85, p. 957. 1³/₂ columns.
- Some Facts and Figures of Sorting on the Rand. By L. D. Huntoon. E. & M J., vol. 88, p. 1069. 6½ columns.
- ORE SORTING IN THE PACHUCA AND REAL DEL MONTE. E. & M. J., vol. 86, p. 525. 1½ columns.
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- SORTING TABLE AT COBALT By G C. BATEMAN. E. & M J, vol 89, p. 1310. 1½ columns. I
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Flotation Processes

- THE HISTORY OF THE FLOTATION PROCESS. Min. Mag., London, Vol. 1, p 61. 8 columns. I.
- FLOTATION PATENTS. Min Mag, London, vol. 1, p 289. 2½ columns.
- THE PHYSICS OF ORE FLOTATION. P. C. M & M Soc. S. A., vol 6, p. 253. 1 column
- See also Theory of Concentration.
- A Few Notes on the Elmore Vacuum Process of Ore Concentration By H H. Claudet. J. C. M I, vol. 11, p. 460. 2 pages
- THE ELMORE FLOTATION PROCESS. E. & M J, vol 86, p. 840 4 columns
- ELMORE PROCESS AS APPLIED BY ZINC CORPORATION. E & M. J, vol. 88, p. 205 7 columns I
- ELMORE VACUUM PLANT. Min & Sci. Press, vol. 98, p. 391. 2\frac{2}{3} columns I. Flow-sheet.
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- OIL FLOTATION PROCESS AT BROKEN
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- MACQUISTEN PROCESS OF FLOTATION.
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- THE IMPROVED MACQUISTEN TUBE:
 Flotation Process By W. R. Ingalls. E. & M. J., vol. 86, p. 23.
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- THE DEVELOPMENT OF THE DELPRAT AND POTTER FLOTATION PROCESS. By W. R. Ingalls E. & M. J., vol 86, p 175. 2 columns.
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- Horwood Process for Separating Zinc Sulphides. Flotation. By D Clark E & M J., vol. 89, p 460. 4½ columns. I.
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- Improvements in Amalgamation. Min. & Sci. Press, vol. 22, p. 344. 13 columns.
- THE ECONOMICS OF AMALGAMATION. By J. H. Haynes M. & M., vol. 29, p. 321. 2½ columns.
- THE EFFECT ON AMALGAMATION, OF DIFFERENT INTERVALS OF TIME BETWEEN THE DRESSINGS OF PLATES. By G. O. Smart. P. C. M. & M. Soc. S A., vol. 9, p. 425. 10 columns.
- ELECTRO-CHEMICAL AMALGAMATION.
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Flow-Sheets

- FLOW-SHEET OF REPORTS. E. & M. J, vol 89, p. 1217 ½ column. D.
- FLOW-SHEET OF ASBESTOS TREAT-MENT IN QUEBEC J. C. M I., vol. 13, p. 413. I
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- FLOW-SHEET OF THE BEAVER BROOK BREAKER M. & M., vol 30, p. 707. D.
- See also Preparation of Coal
- REVISED FLOW-SHEET OF UTAH COPPER MILL By C T. Rice E & M J., vol 90, p. 1264. 3 columns. I.
- FLOW-SHEET OF THE OHIO CONCENTRATOR. Min. & Sci. Press, vol. 101, p. 303. Diagram.

- FLOW-SHEET OF THE MIAMI MILL, ARIZONA. M. & M., vol 31, p. 2. I.
- FLOW-SHEET OF THE MT. MORGAN, MINE. M. & M, vol 29, p. 4. I.
- Flow-Sheet of Electrostatic Separation. M. & M., vol. 30, p. 364 D.
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- FLOW-SHEET OF THE JESUS MARIA MILL, GUANAJUATO. E. & M J, vol. 86, p. 616. I.
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- FLOW-SHEET IN THE COUR D'ALENE DISTRICT: Typical. E. & M. J., vol. 89, p. 824. I.
- FLOW-SHEET OF DOE RUN MILL, MISSOURI. E. & M. J, vol. 89, p. 611 I.
- FLOW-SHEET OF GRAPHITE TREAT-MENT. M. & M., vol. 30, p. 394 3 columns. D.
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- Use of Plates in Amalgamation
- NOTES ON THE SCALING AND SWEATING OF COPPER BATTERY PLATES BY S. F. Goddard. T. I. M. & M., vol. 18, p. 495. 4 pages.
- THE SILVER COATING OF AMALGAMAT-ING PLATES P. C. M & M Soc. S A., vol 9, p. 142 2 columns. I.
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- THE USE OF ELECTRO-PLATED COPPER PLATES IN THE BATTERY. By F. W. Cindel. P. C. M. & M. Soc. S. A, vol. 5, p. 92, 6 columns; p. 175, 3 columns; p. 205, 1½ columns; p. 316, ½ column.
- DRESSING PLATES AS AFFECTING AMALGAMATION E. & M. J., vol. 88, p. 556. 2½ columns.
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- THE ABSORPTION AND ACCUMULATION OF GOLD ON COPPER PLATES. By W. F. A. Thomas. T. I. M. & M, vol. 17, p. 482. 3½ pages.

Pan Amalgamation

- A NEW AMALGAMATING PAN Min. & Sci. Press, vol. 20, p. 209 3 columns. I.
- Pan-Amalgamation Experiments By H. O Hofman and C. R. Hayward. Min. & Sci. Press, vol 99, p. 529. 9½ columns. I.
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Amalgamating Apparatus (Amalgamators)

- THE PIERCE AMALGAMATOR. E & M J., vol. 85, p. 112. 1 column. I.
- The Pierce Amalgamator By J H Haynes. M & M., vol 29, p 524 3 columns. I.
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- THE PATIO PROCESS. By C. P. Duarte. P. C. M & M. Soc. S. A, vol. 9, p. 105. 9½ columns
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Electrostatic Separation

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- ELECTROSTATIC SEPARATION OF MINERALS IN ORES. By H A. Wentworth E & M. J, vol. 90, p. 15. 8\frac{2}{3} columns I
- ELECTROSTATIC ZINC SEPARATION By L A Palmer M & M., vol 30, p 362. 9 columns I.
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- THE MAGNETIC PROPERTIES OF IRON AND STEEL AT LIQUID AIR TEMPERATURES By C C. Trowbridge. Sch. Mines Quart., vol. 24, p. 72. 12 columns. I.
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- THE GRONDAL PROCESS OF CONCENTRATING IRON ORES By P. McN. Bennie. J. C. M I, vol. 11, p. 189 14 pages I. Maps
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Concentrators, Tables, Buddles, Etc.

- THEORY OF THE ACTION OF THE WIL-FLEY TABLE. By R. H. Richards. T. A. I. M. E., vol. 38, p. 556. 23 pages. I.
- The Wilfley Table, I. By R. H. Richards. T. A. I. M. E., vol. 38, p. 556. 23 pages. I.

- THE WILFLEY TABLE, II By R H. Richards T A I M. E, vol 39, p. 303. 11 pages I
- USE OF WILFLEY TABLES IN THE CŒUR D'ALENE DISTRICT E & M. J, vol. 89, p 822. 3 columns.
- CONCENTRATION OF FINE SANDS ON A BELT VANNER. By T. M. Owen and J. F. Stephen. T. Au. I. M. E., vol. 13, p. 143. 10½ pages.
- See also SAND TREATMENT.
- TREATMENT OF SLIMES ON VANNERS. By R Gahl T A I. M E, vol 40, p. 517. 21½ pages I
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- Vanners in the Cour d'Alene District. E & M J, vol. 89, p. 823. 1 column.
- LA POINT FLOUR-GOLD SEPARATOR. E & M. J., vol 85, p. 1141 ½ column. I.
- GOLD SAVING TABLES ON CALIFORNIA DREDGES. E & M. J., vol 89, p 1311. 2 columns. I.
- See also Dredging for Gold and Other Materials.
- THE HENNING CONCENTRATING TABLE. E. & M. J., vol. 86, p. 134. 1 column. I.
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- RITTINGEE'S PERCUSSION TABLE. Min. & Sci. Press, vol. 20, p. 130. 1 column. I.
- OSCILLATING-TABLES FOR ORE TREAT-MENT IN SARDINIA. T. A. I. M. E., vol. 39, p. 83. 6 pages. I.

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- THE GREASE TABLE FOR COLLECTING DIAMONDS E & M. J, vol 89, p. 371. ½ column.
- CONSTRUCTION OF CANVAS TABLES FOR CANVAS SLIME PLANT E. & M. J, vol. 89, p. 356. 2 columns. I.
- An Improved Blanket Table. By T. White. T Au I M E, vol 4, p. 36. 6 pages. I
- BUDDLES FOR COARSE AND FINE ORE IN THE TIN WORKS OF YUNNAN DISTRICT, CHINA T I. M & M., vol. 19, p. 191 1 page I
- THE BUDDLE AS A CONCENTRATOR OF COPPER SLIMES. By C. T. Rice E. & M J., vol 90, p 1107 5 columns I.
- THE MEXICAN PLANILLAS E. & M J, vol. 90, p 353. 1 column I.
- MEXICAN "PLANILLA" CONCENTRA-TOR By H. J Baron. M & M., vol. 30, p. 377. 3 columns. I
- ORE CONCENTRATOR. Min & Sci Press, vol 22, p 161 1 column I.
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Washing Coal and Mineral

- PROCESS OF COAL WASHING. By S. Diescher. P. E. Soc. W. Pa, vol. 23, p. 199. 22 pages. I.
- DESCRIPTION OF WASHING (COAL)
 PLANTS IN OPERATION. By W. G.
 Wilkins. P. E Soc W. Pa., vol 23,
 p. 221. 20 pages. I.
- THE BITUMINOUS WASHERY AT TYLER, PENNSYLVANIA. By E. K. Judd. E. & M. J., vol. 85, p. 457. 8 columns. I.
- THE OPERATION OF A COAL WASHERY IN COLORADO. By W. F. Murray. E. & M. J., vol. 86, p. 1248. 9 columns. I.
- A MODERN COAL WASHERY IN NEW MEXICO. E. & M. J., vol. 86, p. 182. 64 columns.

- WASHING AND COKING TESTS OF COAL AT DENVER, COLORADO. By A. W. Belden and others. U. S. G. S, Bull. 368 54 pages. I. 1909
- See also Testing Fuels and Their Value
- DAWSON COAL WASHING PLANT, NEW MEXICO M & M, vol. 29, p. 91. 2 columns. I.
- A New Coal Washery in Michigan. By Lee Fraser. E & M. J, vol. 87, p. 993. 3½ columns. I.
- COAL WASHING IN THE GREAT FALLS COALFIELD, MONTANA. E. & M J., vol. 87, p. 590. 1 column.
- THE COAL-WASHING PLANT AT THE DAWSON MINE, NEW MEXICO M. & M., vol. 31, p 656. 2½ columns I.
- ELECTRIC COAL WASHING IN SOUTH WALES. P. C. M. & M. Soc. S A, vol 9, p. 281. 1 column.
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- THE LOG WASHER IN ZINC MINING. By L L Wittich. M. & M, vol. 31, p. 423. 1 column. I.
- LOG WASHERS USED IN MINNESOTA FOR WASHING IRON ORE. M. & M., vol. 29, p. 97. 3½ columns. I.
- LOG WASHER FOR GOLD ORES. E. & M. J., vol. 87, p. 936 2 columns. I.
- ORE WASHING AT CRIPPLE CREEK. By S. A. Worcester. Mrn. & Sci. Press, vol. 98, p. 291 32 columns.
- NEW TYPE OF WASHER FOR LOW-GRADE GOLD ORES. By J. H. Pratt. E. & M. J., vol 87, p. 935. 10 columns I
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- Washing Floors for Tin Concentration, Yunnan, China. T. I. M.& M., vol. 19, p. 191. 1 page. I.

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Disposal of Waste

THE DISPOSAL OF RESIDUES AT KALGOORLIE By H Adams T. Au. I.
M. E, vol. 13, p. 115. 13½ pages. I.
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p 643. 3 columns. I.

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DUMPING RESIDUE AT KALGOORLIE. By M. W. Von Bernewitz. Min. & Sci. Press, vol. 95, p. 368. 4½ columns, I.; p. 459, 2 columns, I.

HANDLING TAILINGS AT COLORADO CITY. By R. L. Herrick. M. & M., vol. 30, p. 621, 5½ columns. I.

METHOD OF HANDLING SLIMES AND TAILINGS. By A. O Ihlseng E. & M J., vol. 89, p. 762. 2½ columns. I.

IMPOUNDING MILL TAILING. By H. W. MacFarren. Min & Sci Press, vol 99, p. 333. 2 columns I.

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- THE WILSON HYDRAULIC SEPARATOR. P. C. M. & M. Soc. S. A, vol. 8, p. 176 2 columns. I.
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- DIAPERAGM CONES AND TUBE-MILL-ING. By W. Neal Min. & Sci. Press, vol. 100, p. 483. 7 columns. I.
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- SLIME TREATMENT By A. M Nicholas. Min. & Sci. Press, vol. 95, p. 583. 1 column I
- SLIME TREATMENT Min. & Sci. Press, vol 95, p. 715. 3 columns. I
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- TREATMENT OF SLIMES. By W. B. Gray. T. Au. I. M. E., vol. 5, p. 138. 4½ pages.
- TEMATMENT OF SLIME. By H. C. Nichols. Min. Mag., London, vol. 1, p. 221. 62 columns. I.

- CONCENTRATION OF SLIME. By W. E. Darrow. Min & Sci Press, vol. 95, p. 268. 2 columns.
- SLIME CONCENTRATION By F. R. Porter. Min. & Sci. Press, vol. 100, p. 431 2\frac{2}{3} columns.
- CONCENTRATION OF SLIME. By M. W. Von Bernewitz. Min. & Sci Press, vol 101, p. 777. 2½ columns. I
- CONCENTRATION OF SLIME By E. A. Sperry Mm. & Sci. Press, vol 101, p. 174, 5 columns, p 206, 102 columns, I; p 432, 6 columns, I
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- DEWATERING SLIMES. Min & Sci. Press, vol 101, p 208. 5½ columns I.
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SLIME TREATMENT AT THE DESERT MILL, MILLERS, NEVADA. Min. & Sci. Press, vol 95, p. 496. 3 columns. I.

SLIME TREATMENT AT TONOPAH, NEVA-DA. E & M. J, vol 87, p. 596. 1 column.

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SLIME CONCENTRATING AT THE PINGUICO MILL, MEXICO. E. & M. J., vol. 85, p. 705. 2½ columns.

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RECLAIMING ZINC-LEAD FINES. By L L. Wittich. M. & M, vol. 31, p. 131. 1 column. I.

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SAND TREATMENT AT THE CONSOLI-DATED MERCUR MINES E. & M. J., vol 89, p. 1276. 1½ columns.

TREATMENT OF SANDS AT THE PITTS-BURG SILVER PEAK MILL, NEVADA. M. & M., vol. 29, p. 570. 2 columns. See also Classifiers and Classifica-TION and SLIMES AND THEIR TREAT-MENT.

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THE HUNGARIAN DRY WASHER FOR TREATING DRY PLACERS. Min. & Sci Press, vol 97, p. 360. 1 column I.

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Salt Making

- SALT: Its History, Occurrence and 'Manufacture. By A A Hayard. J M Soc N. S, vol. 11, p. 99. 18 pages
- Salt: Historically, Statistically, and Economically; New Improved American Salt Manufacture By R Thomassy. Min. Mag, vol 9, p. 438 3½ pages
- HISTORY OF SALT MAKING By E. W. Parker. U S G S, 18th Ann Rept., pt 5. 24 pages. 1896-97
- Salt Making at Alameda, California. Min. & Sci Press, vol. 22, p. 70 3 column.
- Purifying Rock Salit by Fusion E & M J, vol 86, p 564. ½ column
- SALT-MAKING PROCESSES IN THE UNITED STATES By T M. Chatard. U. S G S., 7th Ann Rept, pp. 491– 535 1885–86 I.
- SALT PRODUCTION WITH EXHAUST STEAM By N B. Beasley E & M J., vol 87, p 1150 1½ columns.
- Notes on the Evaporated Salt Industry of Kansas By C M. Young E & M J, vol 88, p. 558. 101 columns. I.
- THE ROCK SAIT MINING INDUSTRY IN KANSAS. By S Ainsworth. E & M J, vol. 88, p 454. 7½ columns. I.
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- PROGRESS AND PROBLEMS IN ORE DRESSING. By C. De Kalb. Min & Sci Press, vol 100, p. 54. 7 columns. I.
- DESIGNING A THOUSAND-TON CON-CENTRATING PLANT. By C. C. Christensen. Min. & Sci. Press, vol. 101, p. 806. 4½ columns. I.

- THE CONQUEROR TAILINGS PLANT. E. & M. J, vol. 89, p. 668. 2 columns I.
- See also DISPOSAL OF WASTE.
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- CONCENTRATING MIXED ORES AT ROSAS, SARDINIA By U. Coppa. E & M J, vol 85, p 943 10 columns I
- THE SOUTH UTAH MILL. M & M, vol 31, p. 592. 8½ columns. I.
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- Mode of Treatment of Ores at the Mines of Schemnitz, in Hungary. Min Mag, vol 3, p 260. 3 pages.
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- See also Occurrence of Asbestos
- PREPARATION OF BARITE FOR MARKET, MISSOURI T. A. I. M. E., vol. 40, p 734 9½ pages I.
- See also Occurrence of Barite and REDUCTION OF ORES
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- Lake Superior Ore-dressing Practice. By L. S. Austin. Min. & Sci Press, vol. 96, p. 259. 3\frac{1}{2} columns I.
- CONCENTRATION AT THE BUTTE REDUCTION WORKS. By A. H. Wethey. E. & M. J., vol. 88, p. 415 3½ columns. I.

- EXPERIMENTAL MILL OF THE NEVADA CONSOLIDATED COPPER COMPANY. By M. L. Requa. Min & Sci. Press, vol. 97, p. 90 9 columns. Tables.
- DRESSING OF ORES AT THE YELTA COPPER MINE, SOUTH AUSTRALIA. T Au I M. E., vol 11, p 99. 4 pages.
- PREPARATION OF DIAMONDS AT THE DE BEERS MINES P C. M. & M. Soc S. A., vol 7, p. 228 2½ columns.
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- ANALYSIS OF MINE AND MILL PRACTICE ON THE RAND. By E. M. Weston. E & M. J., vol. 89, p. 169, 14 columns, I.; p. 267, 10½ columns, I.
- DESCRIPTION OF ORE TREATMENT AT THE GIANT MINE, HARTLEY DISTRICT, RHODESIA By R. C. H. Cooke. P. C. M & M. Soc S A., vol. 9, p 152 8½ columns. I
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- MILLING AND TREATMENT OF AURIFER-OUS ORES IN NEW ZEALAND. By H. A. Gordon. T. Au. I. M. E., vol. 9, p. 206. 18 pages.

- THE TREATMENT OF CASSILIS ORE, EAST GIPPSLAND, VICTORIA, AS CARRIED ON BY THE CASSILIS MINING COMPANY, N. L. By W. Aplin T. Au. I. M. E., vol 9, p. 224. 10 pages. I. D
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- PORTLAND CEMENT CALCULATIONS. M & M., vol 31, p. 25. 12 columns.
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- NOTES ON THE BRITISH STANDARD SPECIFICATION FOR PORTLAND CE-MENT, AND OBSERVATIONS ON THE

- USE OF WATER AND CONCRETE IN STRUCTURAL WORK. By W. Watts. T. I. M. E., vol. 37, p 318 13 pages
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Cost of Excavating

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- Cost of Roasting Per Ton with the Brown Roaster. E. & M. J., vol. 62, p. 9.
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- COST OF ROASTING CONCENTRATES. T. A. I. M. E., vol. 17, p. 318.

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- THE VALUE OF ADVICE: Fees Min. & Sci Press, vol 88, p 326 } column.
- THE COST OF TESTING A MINE Mm. & Sci Press, vol 81, p 125 2 column.
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- Cost of Shop Drawings. M & M, Dec., 1901, p. 197. ½ column.
- Cost of Construction Made of Hollow Concrete Blocks. E & M. J, vol 80, p 50
- Cost of Concrete in Building Construction. E. & M. J., vol 76, p. 623
- COST OF CONSTRUCTING A LARGE SHOP BUILDING WITH REINFORCED CONCRETE WALLS AND STEEL ROOF TRUSSES Eng.-Cont, vol. 27, p. 88. 7 columns. I.
- Cost of Mill Construction in the Cosur d'Alene Mills. E. & M J, vol. 88, p 1206. ½ column.
- COST OF WOODEN SECTION AND TOOL HOUSES. R. R. Construction, Webb, p. 400 Table.
- COST OF ERECTING BUILDINGS PER TON. E. & M. J, vol. 81, pp. 140 and 313. 2 columns.
- COST OF BLACKSMITH SHOP AND TOOLS, COMPLETE. M & M., vol. 25, p. 458. Table
- Cost of Mining Plant of 2200 Tons Capacity. T. I. M. & M., vol. 7, p. 147. Table.

- COST OF CYANIDE PLANT AND EREC-TION T. I M. & M., vol. 7, p. 148. Table
- COST OF MILL CONSTRUCTION IN RHODESIA Min. Mag., vol. 13, p. 11. Tables.
- DETAILED COST OF MILL CONSTRUC-TION Ore Dressing, Richards, vol. 2, p 1125. Table.
- COST OF CONCRETE VS. BRICK BUILD-INGS. E & M. J., vol. 80, p 50.
- COST OF MILL BUILDINGS Mill Building Construction, p 15. Table.
- Cost of Mill Erection in Wisconsin. E & M. J., vol 82, p. 152. Table.
- COST OF GOLD-MILL CONSTRUCTION. T. A I M. E, vol 10, p. 99.
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- COST OF DIFFERENT KINDS OF ROOF COVERINGS Mill Building Construction, p 30
- Cost of Roof Coverings E & M. J, vol. 76, pp. 356, 357. Tables.
- COST OF TIPPLE, COMPLETE M. & M., vol 25, p. 458 Table.
- Cost of Tipple and Head France. E. & M. J., vol. 74, p. 407.
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- APPROXIMATE COST OF HEAD FRAMES AND TIPPLES E & M J, July 14, 1904, p. 64 Table
- Cost of Head-Frames and Tipples. E & M. J, vol 79, p. 766
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- COST OF STEEL HEAD-FRAME AND BINS AT GWIN MINE Min. & Sci. Press, vol. 88, p 5 ½ column.
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- COST OF THE PACIFIC COAL COM-PANY'S BREAKER AT ALBERTA, CAN-

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- See also Tank for MINE PURPOSES.
- Cost of Constructing Shaft Ore-Bins in West Australia. Min. & Sci. Press, vol. 90, p. 170. Table.
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- See also Cost of Flume Construc-
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Cost of Mining

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Cost of Mining and Treatment

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Cost of Coal Mining

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- COST OF WORKING BY ROOM AND PIL-LAR SYSTEM WITHOUT GOBBING-UP. T. A I M. E., vol. 2, p 110.
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- COMPARATIVE COSTS OF THE PILLAR-AND-CHAMBER, PILLAR-AND-CHAM-BER RETREATING, AND PANEL SYS-TEM RETREATING. M. & M., vol. 27, p 534 Tables
- COMPARATIVE COST OF WORKING AN 18-IN. COAL-SEAM: When Bottom-Cutting Is Used as Gobbing; and Bottom Cutting Is Used as Brick Material. T. I. M. E., vol. 15, p. 61. Table.
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- SEE also MECHANICAL MINING Appliances: Getters.

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- Cost of Machine Mining of Coal. M. & M, vol. 17, p 315. Table.
- Cost of Repairs for Machine Mining in Virginia Coal Mines. E. & M. J., vol. 84, p. 408.
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- COSTS OF COAL-CUTTING BY MA-CHINERY. T. F. I. M. E., vol. 11, pp 199, 200.
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- FIRST COST OF CONVEYORS AND COST OF MAINTENANCE OF SAME. The Mechanical Handling of Material, p. 92. Table
- COST OF LOADING VESSELS BY RIGG'S ELEVATOR. The Mechanical Handling of Material, p 267.
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- For other FREIGHT RATES see same reference.
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- COST OF MULE HAULAGE Miner's Pocket Book, Lock, p. 282. Table. See also Portage, Packing and Flum-

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- COST OF STEAM AT PORTLAND MINE. T. A. I. M. E, Feb., 1906, p 1304. Table
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- Cost of Compressed Air in Terms of Indicated Horse Power. T. N. S. I M. & M. E, vol 9, p 51. Table.
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- Cost of Power for Operating Va-RIOUS FORMS OF AIR COMPRESSORS. M. & M., vol 27, p. 102. Table.

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- COST OF COMPRESSED AIR, PORTLAND MINE, COLORADO. T. A. I. M E., vol. 37, p 97 Table
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- Cost of an Oil-Engine for Underground Use. T. I. M. E., vol. 18, p. 399.
- COST OF PRIESTMAN OIL ENGINE PER HOUR. T. F. I. M. E., vol. 3, p. 262. Table
- See also Power, ETC, and Gas and Oil Engines.

Cost of Producing Various Materials

- PERCENTAGE SUBDIVISION OF COST OF PRODUCING MINERAL: Cost per Ton; Mining Plant, etc; Labor, Supplies, etc, Timber, Maintaining Workings etc, Milling, etc; and Management, etc. T A. I. M. E., California Mines and Minerals, p. 64.
- COST OF PRODUCTION OF TRINIDAD ASPHALT Min. & Sci. Press, vol. 66, p 262.
- Cost of Producing China Clay E. & M. J., vol. 79, p. 1080.
- Cost of Production and Profits per Ton Coal, Belgium. E. & M. J, vol. 74, p. 706.
- Cost of Mining Anthracite Coal. E. & M. J., vol. 77, p 592. 1 column.
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- Cost of Producing Copper per Ton. E. & M. J., vol. 30, p. 108. Table.
- COST OF PRODUCING COPPER AT CAL-UMET AND HECLA MINES. E. & M. J, vol. 40, p. 420. 2 columns.
- Cost of Producing Lake Copper. Min. & Sci. Press, vol. 83, p 75.
- Cost of Cananea Copper Min. & Sci. Press, vol. 83, p. 86.
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- WHAT IS THE COST OF PRODUCING GOLD AND SILVER? E. & M. J, vol. 51, p. 437. ½ column.
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- See also The Development and Production of Precious Metal Mining.
- Cost of Producing Old Range Iron (Bessemer) Ores E. & M. J., vol. 83, p. 717.
- Cost of Production of Iron. T. A. I M. E, vol 17, p. 123.
- Cost of Production of Ore (Iron) in Lake Superior Region. M. & M., vol 19, p. 413.
- See also THE IRON TRADE.
- COST OF PRODUCING BRAZILIAN MICA. T. I. M. & M, vol. 12, p. 357. Table.
- COST OF PRODUCTION OF LOW-GRADE PHOSPHATE-ORES, CANADA. T. A. I. M. E., vol. 21, pp. 179, 183, 184, 185.
- Costs and Profits in Silver-Lead One Production By J R. Finlay. E. & M. J, vol. 85, p. 1279. 11 columns
- THE COST OF PRODUCING SILVER. E. & M. J., vol. 55, p. 146. 1½ columns.
- THE COST OF PRODUCING SILVER.

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Cost of Preserving Mine Timber

- Cost of Preserving Timbers by Various Methods R R Construction, Webb, p. 229 2 pages.
- Cost of Treatment of Timber for Use in Mines T. F I M. E, vol. 10, p 533.
- PROTECTING STEEL FROM CORROSION. By R B. Woodworth Mm. & Sci. Press, vol. 99, p 560. 1½ columns.
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Cost of Prospecting

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- Cost of Prospecting with Churn Drill. Min. & Sci Press, vol. 93, p. 786. Table.
- Cost of Prospecting in Zinc Fields of Wisconsin. E. & M. J., vol. 81, p. 1233. 2 columns.
- Cost of Churn-Drill Prospecting. E. & M. J., vol. 80, pp. 920, 921 and 922.
- Cost of Churn and Diamond Drilling in Missouri. E. & M. J., vol. 80, p. 244.

- Cost of Diamond Drill Prospecting Underground at the Esperanza Mine, El Oro, Mexico Min & Sci. Press, vol 99, p. 825. Table
- Cost of Prospecting by Diamond Drill The Witwatersrand Goldfields, pp 147, 148.
- Cost of Test Drilling on Misabi Range E. & M J, vol. 75, p 896.
- Cost of Test Drilling on Vermillion Iron Range E. & M. J., vol. 75, p. 966.
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- Cost of Prospect Drilling in Alluvial Deposits at Oroville, California. T I. M. & M., vol 12, p 459. Table.
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MINE DRAINAGE

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Water Rings for Mine Shafts

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Compressed Air Pumping

- THE AIR-LIFT PUMP. J. W. Soc. E., vol. 12, p. 751. 2 pages. I.
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- ELECTRICALLY DRIVEN MINE PUMPS. By S. F. Walker. E. & M J., vol. 87, p. 422. 4 columns.
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Bailing Water

Bailing Water at Coleman Shaft. By F. G. Brackett M & M, vol. 31, p 631. 3 columns I.

WATER TANK AND COUNTERWEIGHT USED AT THE ROOSEVELT TUNNEL. M & M, vol. 29, p. 391. ½ column. I

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Drainage Tunnels

Comstock Drainage Problems. By L. M. Hall. Min. & Sci Press, vol. 99, p. 27. 5½ columns. I.

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- RECORD OF DEEP-WELL DRILLING FOR 1904. By M. L. Fuller, E. F. Lines, and A. C. Veatch. U. S. G. S., Bull. 264, 106 pages, 1905; Bull. 298, 299 pages, 1906.
- DEEP DIAMOND-BORING AT BALFOUR MAINS, FIFESHIRE, GREAT BRITAIN. By J. G. Thompson. T. I. M. E., vol. 36, p. 574. 6 pages. I.

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- PEAT DEPOSITS. By N. S. Shaler. U. S. G. S., 16th Ann Rept., pt. 4, 9 pages.
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- THE PREPARATION AND USE OF PEAT AS FUEL IN ALASKA By C. A. Davis. U. S. G. S., Bull. 442, p. 101. 32 pages. 1909.

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- CONSTRUCTION AND MANIPULATION OF A GASOLINE ASSAY-FURNACE By W. E Darrow Min & Sci Press, vol 95, p. 749. 3½ columns I
- Assaying Sulphide Ore. By F G. Hawley. E. & M. J., vol 89, p. 1221. 2 columns.
- Assay of Battery Chips and Screens By L. J. Wilmoth. P. C. M. & M Soc S. A, vol 8, p 230, 5 columns; p 343, 4 columns; p 378, 22 columns.
- QUANTITATIVE BLOW-PIPE ASSAY. E & M. J., vol 85, p 1111. 1 column
- ANALYTIC WORK AT COPPER QUEEN SMELTER Min. & Sci Press, vol 101, p 147. 2½ columns.
- COMBINATION ASSAY OF COPPER BUL-LION. By S M Scott M. & M, vol. 31, p. 240. ½ column.
- Sampling and Assaying the Copper Ores of the Ely District By R Marsh. Sch. Mines Quart, vol. 30, p. 91. 6½ pages.
- METHODS OF ASSAYING IN CYANIDE PLANTS. E. & M. J., vol. 88, p 608. 4 columns.
- THE ASSAY OF CYANIDE SOLUTIONS FOR GOLD CONTENT. By W F. Bœricke. E & M J., vol 88, p. 525. ½ column.
- Assay of Cyanide Precipitate. By F. A. Bird Min. & Sci Press, vol 99, p. 504. 2\frac{2}{3} columns.
- Assay of Gold and Silver Cyanide Solution. By T P. Holt. Min. & Sci Press, vol 100, p 863. 12 columns.
- THE ASSAY OF CYANIDE SOLUTIONS AND SLIME RESIDUE CARRYING DISSOLVED GOLD. By A Whitby P. C. M. & M Soc. S A., vol 10, p. 134, 4½ columns; p 289, 1½ columns.
- See also CYANDING GOLD, ETC.
- Assay of Telluride Ores. E & M. J., vol. 85, p. 619. 12 columns.
- COMPARISON OF WET AND CRUCIBLE-FIRE METHODS FOR THE ASSAY OF

- GOLD TELLURIDE ORES, WITH NOTES ON THE ERRORS OCCURRING IN THE OPERATIONS OF FIRE ASSAY AND PARTING By W F. Hillebrand and E. T. Allen. U. S. G S., Bull. 253 31 pages. 1905.
- Assay of Gold Telluride Ore E & M J., vol. 85, p 1304 1½ columns
- BEHAVIOR OF TELLURIUM IN ASSAYING E & M. J, vol 87, p. 1176 12 columns.
- THE BEHAVIOR OF TELLURIUM IN ASSAYING By S W. Smith T. I. M & M, vol. 17, p 463 19½ pages
- THE ASSAY OF TELLURIDE ORES. By G. T. Holloway and E. B Pearse T. I. M & M, vol 17, p. 171 40 pages
- STANDARDIZATION OF BULLION ASSAYS.

 M. & M, vol. 31, p. 690. 1½ columns
- THE INDIAN MINT ASSAY OF SILVER BULLION. By F T. C. Hughes T. I. M & M, vol 17, p. 334 16 pages I.
- THE ASSAY AND VALUATION OF GOLD BULLION. By F P Dewey. T. A I M. E, vol 40, p. 780. 18 pages
- Notes on the Assay of Gold Bullion. By T. K. Rose. P. C. M. & M. Soc. S. A., vol. 6, p. 36, 5 columns; p. 161, 1½ columns; p. 192, 1 column; p. 248, 2 columns.
- WET ASSAY FOR GOLD. M. & M., vol 31, p. 143. ½ column.
- LIGUTO ASSAY OF GOLD. By R. De Luce. E & M. J, vol. 89, p 405. 1 column.
- Assaying Stamp Mill By-Products. E & M. J., vol. 87, p. 947. 1½ columns.
- WET GOLD ASSAY. By R. De Luce. Min. & Sci. Press, vol. 100, p. 895. 2 column.
- Assaying for Gold and Silver. Min. & Sci. Press, vol. 22, p. 200. 1½ columns

- THE FIRE AND WET ASSAY OF SILVER ORES. E. & M. J., vol 85, p. 269. 2½ columns.
- Assaying Silver Bullion. E. & M. J., vol. 87, p. 942. 11 columns.
- ASSATING IN THE COUR D'ALENE DISTRICT. E. & M. J., vol. 89, p 876. 2½ columns.
- THE EFFECT OF HIGH LITHARGE IN THE CRUCIBLE ASSAY FOR SILVER BY R. W. Lodge. T. A. I. M. E., vol. 38, p. 638. 5½ pages.
- THE FIRE AND WET ASSAY OF SILVER ORES E. & M. J., vol. 85, p. 661. 1 column.
- Assay of Arsenical Cobalt Silver Ores. By D. K. Bullens. E. & M. J., vol. 90, p. 809. 5% columns D.
- COMMERCIAL WET LEAD ASSAY. P. C M. & M. Soc. S. A, vol. 5, p. 158. 1 column
- Assay of Lead. E. & M J., vol 86, p. 324. 2 column.
- THE ASSAY OF LEAD IN TAILINGS AND SLAGS By E. W Buskett. E & M. J, vol 90, p. 408 1\frac{1}{3} columns
- EXPERIMENTS IN FIRE ASSAYING AT THE REDJANG LEBONG MINE, SUMATRA By G. B Hogenraad. P. C. M. & M Soc. S. A., vol. 8, p. 73, 10 columns; p. 150, 2 columns; p. 187, 12 columns; p. 304, 21 columns; p. 380, 3 columns.
- Notes on the Practice of Assaying in British Columbia. By C. S. Baker. J. C M. I., vol. 11, p. 443. 7 pages.
- Assaying Spelter. E. & M. J., vol. 85, p. 812. 2½ columns.
- WET ASSAY OF TIN ORES. By J. J. Beringer. Min Mag., London, vol. 1, p. 231. 3½ columns.
- Assay of Tin Ore. E. & M. J., vol. 85, p. 1112 ½ column.
- Assay of Tin Ores. By G Hohagen. E. & M. J, vol. 85, p. 422. \(\frac{3}{2}\) column.

- WET ASSAY OF TIN ORES P. C. M & M Soc S A, vol. 10, p. 376. 2 columns.
- WET ASSAY FOR VANADIUM ORES. E & M. J., vol. 90, p. 79. ½ column. See also Definitions and Terms
- See also Weights and Measures and Concentration

Metallurgy of Copper

- COPPER SMELTING. The Process as Practiced at the Hafod Works, Swansea. Min Mag., vol 10, p. 33. 5 pages
- COPPER SMELTING. By H. M. Howe. U S G. S., Bull. 26. 107 pages. 1885.
- THE MINING AND METALLURGY OF COPPER, SILVER, LEAD AND ZINC. By F. W. Sewell. T. Au I M. E., vol. 12, p 105. 26 pages I. D.
- LABORATORY ROUTINE IN MODERN COPPER SMELTERS By H. T. Waller T. I M & M, vol. 18, p. 37. 22 pages.
- COPPER IN CHLORIDE SOLUTIONS. By G Fernekes Min. & Sci. Press, vol. 95, p. 592. 2½ columns.
- MOISTURE IN COPPER BULLION. By D. M. Liddell. E. & M J., vol. 90, p 1095. 31 columns.
- THE BEHAVIOR OF COPPER-SLAGS IN THE ELECTRIC FURNACE By L. T. Wright. T. A. I. M. E., vol. 41, p 316. 1½ pages.
- THE GREENAWALT ELECTROLYTIC PROCESS. By W. E Greenawalt. E. & M. J., vol. 90, p. 1062. 123 columns. I.
- SECTIONAL SLAG POT. By E C. Ruder. M. & M., vol. 31, p. 149. 3 column I.
- THE KILKER MATTE TAPPING CAR. By F. T Havard. E. & M J., vol. 87, p. 1294 3 columns. I.
- SLAG CAR USED AT THE CANANEA SMELTING WORKS By C F Shelby. E. & M. J., vol 87, p. 204. 3 columns. I.

- A MATTE-SEPARATING FOREHEARTH. By E Jacobs E. & M. J, vol 87, p 1232. 2 columns. I
- MATTE SMELITING AT DENVER By H F Bain Min. & Sci Press, vol 100, p. 250 8 columns I.
- KELLEY SLAG AND MATTE CASTING MACHINE By F. G. Kelley E. & M J, vol 86, p 610. 4 columns I.
- MATTE SMELTING AT INGOT, CALIFORNIA By W. B. Bretherton. E & M J, vol. 85, p. 443 6 columns. I.
- METHOD OF HANDLING MATTE AT SELBY, CALIFORNIA By J. C Bennett. E. & M. J., vol. 85, p 252. 4 columns I
- THE CONSTITUTION OF COPPER-IRON AND COPPER-LEAD-IRON MATTES. By C A Fulton and I E. Goodner. T. A. I M E., vol 39, p. 584. 35½ pages I.
- THE PRODUCTION OF CONVERTER-MATTE FROM COPPER-CONCEN-TRATES BY POT-ROASTING AND SMELTING By E A Packard T. A I. M E., vol. 38, p 633. 41 pages.
- THE CONSTITUTION OF MATTES PRODUCED IN COPPER-SMELITING. DIscussion of A. Gibb's and R. C. Philp's Paper. T. A. I. M. E, vol 38, p. 913. 2½ pages.
- SINTERING OF COPPER ORES By W. G. Perkins Min. Mag., London, vol 2, p. 209. 6½ columns.
- SINTERING OF COPPER ORES IN SPAIN. By H F. Collins. Min. Mag., London, vol. 1, p 52. 6 columns I.
- METAL LOSSES WITH ORE OF LOW COPPER CONTENT By C. A. Heberlein E. & M. J., vol. 89, p. 617. 2½ columns.
- METAL LOSSES IN COPPER SLAGS. By N. M. Zoph Min. & Sci. Press, vol. 100, p. 261. 2 columns.
- METAL LOSSES IN COPPER SLAGS. By L. T Wright. T. A I M. E., vol. 40, p 492. 4 pages. D.

- NOTES ON THE METAL LOSSES IN COPPER SLAGS. By C. A. Grabill. E & M J., vol. 89, p. 776. 9½ columns. D
- ALLOYS OF COPPER: German Silver, Bronze Ordnance, or Common Metal—Bell Metal Min Mag, vol 10, p 197. 16 pages.
- COPPER FOR THE FOUNDRY. By F L. Antisell E. & M. J., vol. 86, p. 225 3 columns.
- THE INFLUENCE OF BISMUTH ON WIRE-BAR COPPER. By H. N. Lawrie. T. A I. M E., vol 40, p 604. 10 pages. I.
- THE INFLUENCE OF BISMUTH ON WIRE BAR COPPER By H. N. Lawrie T A I M. E, vol. 40, p. 604 10 pages I.
- THE CONSTITUTION OF FERRO-CUPROUS SULPHIDES By H O. Hofman, W. S. Caypless and E. E. Harrington. T. A. I. M. E., vol. 36, p. 142 12 pages. I
- THE NEILL PROCESS AT COCONINO, ARIZONA By J. W. Neill E. & M. J., vol 85, p 556 2½ columns
- THE NEILL PROCESS AT COCONINO, ARIZONA: Leaching with Sulphur Dioxide E & M. J., vol. 85, p. 152 1½ columns
- THE JUMAN COPPER LEACHING PROC-ESS E. & M J., vol. 86, p 132. 12 columns
- COPPER LEACHING PLANT IN THE URAL MOUNTAINS. By A L Simon. T. I M. & M., vol 19, p 212, 30 pages, I; p. 244, 18 pages
- PRECIPITATION OF COPPER FROM BUTTE MINE WATER. By C J Stose E. & M. J., vol. 87, p 953 52 columns. I.
- COPPER LEACHING IN THE URAL MOUNTAINS. E. & M J., vol 89, p 461 11 columns
- PRECIPITATION OF COPPER FROM CU-PIFEROUS WATERS. By F. H. Probert. Min. & Sci. Press, vol. 96, p. 27. 5\frac{1}{2} columns. I.

- A COPPER PRECIPITATING PLANT BY H W. Chittenden. E. & M J, vol. 86, p. 853. 4½ columns.
- THE OUTLOOK FOR HYDROMETAL-LURGY OF COPPER. By W. E Greenawalt. E & M. J, vol 90, p. 960. 9 columns
- CONSTRUCTION OF 100-TON COPPER SMELTING PLANT. By C C. Christensen E & M. J, vol 86, p 847. 10½ columns
- THE WASHOE REDUCTION WORKS M. & M., vol 30, p. 520. 63 columns. I.
- THE GREAT COBAR SMELTING WORKS. E. & M. J., vol 85, p. 950. 15\frac{3}{4} columns I
- WALLEROO AND MOONTA COPPER MINES AND SMELTERY By G. W. Williams. E & M. J, vol 88, p. 54 14½ columns I
- SMELTING WORKS OF TEZINTLAN COPPER COMPANY. By A. van Zwaluwenburg. E. & M. J., vol. 90, p. 169 10 columns. I
- COPPER SMELTING IN SIBERIA. By W. A. Heywood Min & Sci. Press, vol. 97, p. 59. 1 column.
- COPPER SMELTING IN THE ARGENTINE
 By C. H Jones Min Mag., London, vol. 1, p. 123. 12½ columns. I.
- COPPER SMELTING IN QUEENSLAND, AUSTRALIA. E. & M. J., vol 87, p. 605. 2 columns
- THE SMELTER OF THE MAMMOTH COPPER MINING COMPANY, AT KENNETT, CALIFORNIA. By D. F. Campbell. Min. & Sci. Press, vol. 96, p. 30. 3½ columns. I.
- SMELITING COPPER ORES IN SHASTA COUNTY, CALLFORNIA E & M J, vol. 88, p. 396. 6 columns. I.
- THE GRANBY SMELTER EQUIPMENT. By B L. Sackett M. & M., vol. 30, p. 524. 8½ columns. I.
- THE GRANBY SMELTER. By R. Keffer. Mm. & Sci. Press, vol. 98, p 256. 3½ columns. I
- RECENT DEVELOPMENTS AT THE GRANBY SMELTER. By F. E. Lathe.

- J. C M I., vol. 13, p 273. 15 pages. I.
- CANANEA ORE-BEDDING SYSTEM. By R. L. Herrick. M. & M., vol. 30, p. 65 9½ columns. I.
- CANANEA FURNACE PRACTICE. By C. De Kalb. Mm & Sci. Press, vol. 101, p. 9. 62 columns. I.
- COPPEE-GOLD SMELTING AT MAGISTRAL, MEXICO. By R Linton Min. & Sci Press, vol 97, p. 843. 6½ columns. I.
- THE DOUGLAS COPPER SMELTER AT FUNDICION, MEXICO. By P. E. Barbour E & M J, vol. 85, p. 303. 9 columns I.
- Douglas Smelting Works, Fundicion, Sonora. By W. P. Tucker. E. & M. J, vol. 86, p. 413. 4½ columns I.
- PRESENT CONDITION OF THE GARFIELD SMELTING WORKS. By L. S. Austin. Min. & Sci. Press, vol. 99, p. 590. 23 columns.
- SMELTING PLANT OF THE BUTTE REDUCTION WORKS By A. H. Wethey. E. & M. J, vol 88, p. 1153. 7 columns. I.
- THE SMELTERS AT ANACONDA. By E. P. Mathewson. E. & M. J., vol 86, p. 130. 2 columns
- THE TAXILMA SMELTER, OREGON. By Geo. Crevar. E. & M. J, vol. 85, p. 365. 1½ columns.
- MINING AND SMELTING AT CERRO DE PASCO, PERU. By C C. Sample. E. & M. J, vol 85, p 206. 12 columns. I.
- SMELTING AT CERRO DE PASCO, PERU.

 By L. W. Strauss. Min. & Sci.

 Press, vol. 97, p 637. 15\frac{1}{3} columns. I.
- SMELITING WORKS AT RIO BLANCO, PERU. Min. & Sci. Press, vol 97, p 465. 2 columns. I.
- SMELTING AT NISHNI TAGIL IN THE URAL MOUNTAINS By F. W. Draper. E. & M. J, vol 90, p. 610. 9 columns.

- COPPER SMELTING IN TENNESSEE By J. P. Channing. Min & Sci. Press, vol 96, p. 97 1½ columns.
- MINING AND SMELTING IN THE DUCK-TOWN DISTRICT By E. Higgins. E. & M J., vol 86, p 1237 12½ columns I
- Notes on the Metallurgy at Copperhill, Tennessee By G A. Guess E & M. J, vol. 90, p. 866. 22 columns.
- THE TINTIC SMELTER By L A. Palmer M. & M., vol. 29, p. 535. 3½ columns I.
- THE TYPE SMELTER. By R. L. Phelps. Min & Sci. Press, vol 95, p. 782. 3½ columns. I
- SMELTING PRACTICE OF THE TYPE COPPER COMPANY. By G. W Maynard. E. & M J, vol 88, p. 905. 11½ columns. I.
- YAMPA SMELTER, BINGHAM, UTAH. By L A Palmer Min & Sci Press, vol 99, p. 225. 6\frac{2}{3} columns I
- THE YAMPA SMELTER AT BINGHAM, UTAH. By L. A Palmer. M. & M., vol 31, p. 14. 8½ columns I
- THE INTERNATIONAL SMELTERY AT TOOELE, UTAH. E. & M J, vol 90, p. 1059. 6½ columns. I.
- THE NEW INTERNATIONAL SMELTERY AT TOOELE, UTAH. By J. Tyssowski. E. & M. J., vol. 89, p. 865. 7 columns. I.
- THE TOOBLE SMELTER. By C. M. McGregory. M & M, vol. 31, p. 321. 5½ columns. I
- Notes on Copper Smelting in the West. By E. D. Peters. E & M. J, vol. 88, p. 735. 4 columns.
- See also Concentration, and the Copper Trade, also Cost of Metal-Lurgical Treatment.

Blast Furnace Smelting of Copper

PRACTICAL BLAST FURNACE MANAGE-MENT By Randolph Bolling. E. & M. J., vol. 85, p. 989. 8 columns. I.

- BLAST FURNACE PROGRESS. By J. Birkinbine. U S G S, Mineral Resources, 1883 and 1884, vol. 14.
- A BLAST FURNACE OF OVAL SECTION. E. & M J, vol 87, p 853 3½ columns. I.
- Some Modifications in Blast Fur-NACE Construction By J Kennedy. P. E. Soc. W. Pa, vol. 23, p. 1. 14 pages. I
- BLAST FURNACE STOCK-HANDLING AND CHARGING APPARATUS By W. H. Graham J. M Soc N. S, vol. 15, p. 107 4 pages. I.
- On the Use of Raw Coal in Blast Furnaces Min. Mag., vol 8, p 1.
- Tops of Copper Blast Furnaces. By N H. Emmons. T. A. I. M. E., vol 41, p. 723. 10 pages I.
- CIRCULAR COPPER BLAST FURNACES. By T E. Lambert. M & M., vol. 31, p 20. 6½ columns. I.
- ALUMINA IN COPPER BLAST FURNACE SLAGS. E & M. J., vol. 86, p 1262. 5 columns.
- ROLE OF ALUMINA IN COPPER BLAST FURNACE SLAGS By L G Smith. E. & M J., vol 90, p 1260 5½ columns.
- NEW COPPER BLAST FURNACES AT TEZINTLAN SMELTERY. By C. Robinson E. & M J, vol 88, p. 655 4 columns I.
- THE CHARGING OF BLAST FURNACES. By E. H. Messiter. Min. & Sci. Press, vol. 95, p. 528. 8½ columns I
- BLAST FURNACES IN THE GRANBY SMELTER. M. & M, vol 30, p 525. 2 columns. I.
- BLAST FURNACES AT THE YAMPA SMELTER, BINGHAM, UTAH. M. & M., vol 31, p 16. 2½ columns.
- THE CANANDA BLAST FURNACE By C. F. Shelby. E. & M. J, vol 85, p. 841. 16 columns. I.
- COPPER BLAST FURNACE SMELTING AT ANACONDA By C. Offerhaus. E. & M J., vol. 88, p. 243. 19 columns. I.

- THE CORROSION OF WATER-JACKETS OF COPPER BLAST FURNACES. By G. B. Lee T. A. I. M. E., vol. 38, p. 877 9 pages
- THE CORROSION OF WATER-JACKETS OF COPPER BLAST FURNACES: DIscussion on the paper of G B. Lee. Trans, vol 388, p 877

T. A I. M E, vol 39, p 806. 10 pages

See also METALLURGY OF COPPER

Pyritic Smelting of Copper

- THE DEVELOPMENT OF PYRITIC SMELT-ING. By R C Sticht T Au I. M. E., vol 11, p. 1 70 pages.
- PYRITE SMELTING AND SULPHURIC ACID MANUFACTURE By F. J. Felding and J P. Channing. E. & M J, vol 90, p 555. 10½ columns D
- NEGATIVE RESULTS IN PYRITIC SMELT-ING E. & M J, vol 85, p 325 4 columns; p 373, 4½ columns.
- PYRITE SMELTING BY KUNDSEN

 METHOD IN NORWAY By E Kundsen .E & M. J., vol 87, p. 1080.

 11½ columns I
- KUNDSEN PROCESS OF PYRITIC CON-VERTER SMELTING. By O Bergstrom. Min & Sci Press, vol. 98, p 858 2½ columns.
- NOTES AND COMMENTS ON THE PYRITIC PROCESS OF MOUNT LYELL, TASMANIA By R Nicholls P. C. M & M. Soc S. A, vol 7, p. 135, 8 columns, p 214, 4 columns; p. 290, 5 columns.
- Pyritic Smeliting in Leadville. By C. H. Doolittle and R. P. Jarvis. T. A. I. M. E., vol. 41, p. 709. 14 pages
- PYRITIC SMELITING IN TILT COVE, NEWFOUNDLAND. By F S. Nicholls. E. & M. J., vol. 86, p. 462 42 columns. I.

Reverberatory Smelting of Copper

REVERBERATORY VS. BLAST FURNACES. By H. P. Collins. E & M. J., vol. 89, p. 619. 2 columns.

- REVERBERATORY COPPER SMELTING. By E B Wilson. M. & M., vol 31, p. 557. 8\frac{2}{3} columns I
- REGENERATIVE REVERBERATORY COPPER FURNACE. By F. A. Leas. E. & M J., vol 86, p 898 8 columns I.
- THEORETICAL NOTES ON REVERBERATORY FURNACES By C. A Grabill. E & M. J., vol 89, p. 826 8½ columns
- REVERBERATORY FURNACE PRACTICE. By W A Heywood E & M. J., vol 89, p 407. 1½ columns
- RECENT REVERBERATORY SMELTING PRACTICE By R R Moore E & M J., vol 89, p 1021, 10½ columns; p 1063, 7½ columns.
- REVERBERATORY FURNACE SMELTING OF ORES By T. J. Dyson T Au. I M E, vol 5, p 71 4½ pages.
- MAGNETIC OXIDE IN MATTE. By E. L. Larison. E & M J., vol. 87, p. 1195 3 columns
- SMELTING COPPER IN SMALL REVERBERATORY FURNACES. By E. M. Clark Min & Sci Press, vol. 100, p 579 7 columns I
- OII-FIRED REVERBERATORY FURNACES By R L Herrick. M & M., vol. 30, p. 367. 4 columns. I.
- BURNING REVERBERATORY ASH AT THE STEPTOE PLANT By L. Duncan E & M. J., vol 90, p. 1302. 2 columns.
- MODERN REVERBERATORY SMELTING OF COPPER ORE. By C Offerhaus. E. & M J., vol. 85, p 1189, 7 columns, I, p 1234, 12 columns, I.
- REVERBERATORY FURNACES AT BING-HAM, UTAH, IN THE YAMPA SMELTER. M. & M., vol. 31, p. 15. 2 columns. I
- EXPERIMENTS IN REVERBERATORY
 PRACTICE AT CANANEA, MEXICO By
 L. D. Ricketts. T. I. M. & M.,
 vol 19, p 147. 39 pages I
- EXPERIMENTS IN REVERBERATORY PRACTICE, CANANEA. By L. D. Ricketts. E. & M. J., vol. 89, p. 314. 15 columns. I.

REVERBERATORY PRACTICE AT CERRO DE PASCO. E. & M. J., vol. 89, p. 959. 2½ columns.

Bessemerizing of Copper Matte

- SUCCESSIVE STAGES IN FLAME OF COPPER CONVERTER By D. M. Levy E & M. J., vol. 90, p. 1207. 4 columns.
- OPERATION OF AN ANACONDA COPPER CONVERTER. By C. Offerhaus. E. & M. J, vol. 86, p. 747. 17½ columns. I
- THE BEHAVIOR OF COPPER-MATTE AND COPPER-NICKEL MATTE IN THE BESSEMER CONVERTER By D. H. Browne T. A I. M. E, vol. 41, p 296 20½ pages. D
- COOLING COPPER CONVERTER SLAGS, By F C Kelley. M. & M, vol. 29 p 78 2 columns I.
- COPPER CONVERTERS, HYDRAULICALLY
 OPERATED By G. B Shipley.
 Min & Sci Press, vol 95, p 375.
 4 columns /
- MOVABLE CONVERTER HOODS. By A. H. Wethey. E. & M J, vol. 85, p 100 4 columns. I
- THE LAIST AND TANNER MOVABLE
 CONVERTER HOOD. By L. S Austin. Min & Sci Press, vol 95,
 p 400. 2 columns. I
- COPPER CONVERTER FLAMES. By D. M Levy. M. & M, vol 31, p. 719. 24 columns.
- RECENT PRACTICE IN COPPER MATTE CONVERTING. By R. R. Moore. E. & M. J., vol. 90, p. 460. 16 columns I.
- THE TREATMENT OF OVERBLOWN CHARGES IN COPPER CONVERTERS. By A. R. McKenzie. E. & M. J., vol 90, p 1147. 2½ columns.
- MODERN TYPE OF THE BARREL COPPER CONVERTER. By C. F. Shelby. E. & M. J, vol 88, p. 815. 5 columns. I.
- THE VORTEX COPPER CONVERTER. By H. Haas. E & M. J, vol. 89, p. 972. 6½ columns. I.

- Basic Lined Convertees for Leady Copper Mattes By R. R Moore. E. & M. J., vol. 90, p. 263. 5 columns
- RECENT PATENTS FOR BASIC-LINED COPPER CONVERTERS. By R. H. Vail. E. & M. J., vol. 89, p. 563. 62 columns. I
- COPPER CONVERTERS WITH BASIC LINING. By R. R. Moore. E. & M. J., vol 89, p. 1317. 11 columns. A Machine for Casting Converter
- A MACHINE FOR CASTING CONVERTER COPPER. By J H. Klepinger E. & M. J, vol 85, p 903 5 columns I.
- RELATIVE ELIMINATION OF IRON, SUL-PHUR, AND ARSENIC IN BESSEM-ERIZING COPPER-MATTES By E. P Mathewson. T A. I. M. E., vol. 38, p 154. 6 pages.

Refining of Copper

- ELECTROLYTIC COPPER REFINERY.

 Min & Sci. Press, vol. 101, p. 75.

 1½ columns.
- ELECTROLYTIC REFINING OF COPPER.

 By G H. Blakemore. M & M,
 vol. 30, p. 648. 8% columns I.
- ELECTROLYTIC REFINING OF COPPER. By G. H Blakemore. M. & M., vol 30, p 746 9½ columns. I.
- A STUDY IN REFINING AND OVERPOLING ELECTROLYTIC COPPER. By H. O. Hofman, R. Hayden, and H. B. Hallowell. T. A I. M E, vol 38, p 171. 24 pages I.
- ELECTROLYTIC COPPER REFINING IN AUSTRALIA. By G H. Blackmore. E. & M J., vol 90, p 717, 103 columns, I.; p 769, 6 columns.
- AN AUSTRALIAN ELECTROLYTIC COPPER REFINERY. By R. G. Casey, Jr. E & M. J, vol. 90, p. 1111. 11½ columns. I.
- EFFECT OF TEMPERATURE ON THE ELECTROLYSIS OF COPPER. E. & M. J., vol 86, p 755. 2 columns
- See also Cost of Metallurgical Treatment.

Electro-Metallurgy

- ELECTRIC SMELTING OF ORE AT HEROULT, CALIFORNIA. By J. Tyssowski. E. & M J., vol. 90, p. 269. 82 columns. I
- ELECTRIC SMELTING WITH THE GIROD FURNACE. By W. Borchers. E. & M. J., vol. 88, p. 1113. 13½ columns. I.
- ELECTRIC SMELTING IN SWEDEN. By E. J. Ljungberg. M. & M, vol. 30, p. 288. 2½ columns. I
- ELECTRIC SMELTING By G. H. Clavenger U. S. G. S, Mineral Resources, 1905 12 pages
- THE ELECTRIC FURNACE. Its Place in Siderurgy. By P. McNiven Bennie. P. E. Soc W. Pa., vol. 26, p. 487 45 pages. I.
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- NEW RESISTANCE AND INDUCTION FURNACES. By A. Gradenwitz. E. & M. J., vol 87, p 364. 3½ columns. I.
- See also Cost of Metallurgical Treatment.

Glass Making

- HISTORY OF GLASS MAKING. By G. A. Macbeth P. E. Soc W. Pa., vol. 23, p. 625 21 pages D
- QUESTIONS ARISING IN THE MAKING OF GLASS. By R. L Frink. P E Soc. W. Pa., vol 23, p. 646. 10 pages I.

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- See also Occurrence of Glass Sands.

Metallurgy of Gold and Silver

- PREPARATION OF THE ORES OF SILVER-LEAD, AND COPPER, AND THEIR METALLURGICAL TREATMENT AT THE WORKS AT LOZÈRE, FRANCE By M. Lau Min. Mag, vol 7, p 219, 11½ pages; p. 470, 6 pages
- THE METALLURGICAL TREATMENT OF THE SULPHO TELLURIDE ORES OF KALGOORLIE, WITH SPECIAL REFERENCE TO EXPERIMENTS CONDUCTED AND SULPHIDE MILL ERECTED ON THE ASSOCIATED GOLD MINES OF WESTERN AUSTRALIA, LIMITED. By L. W. Grayson T. Au I. M E., vol 7, p. 170, 20 pages; vol. 8, pt. 1, p. 114, 13 pages
- EXTRACTION OF GOLD BY HYPOSUL-PHITE OF SODIUM, AND ROASTING ORE FOR CYANIDING By E. Janitzky. T. Au I. M. E, vol. 7, p. 99. 3 pages.
- THE SOLUBILITY OF GOLD IN THIO-SULPHATES AND THIOCYANATES. By H. A. White. P. C. M. & M, Soc. S. A., vol 6, p. 109, 4½ columns; p. 197, 1 column; p 225, 2 columns; p. 274, 1½ columns
- ON THE LIXIVIATION OF AN AURIFER-OUS ARSENOPYRITE CONCENTRATE. By T. T Fulton J M Soc. N. S, vol. 10, p 97. 27½ pages D.
- THIOCARBANDE: A New Solvent for Gold By J. Moir. P. C. M. & M. Soc. S. A., vol 6, p 332. 9 columns.
- HYDROMETALLURGY OF COBALT ORES. By E B Wilson M. & M., vol. 31, p. 303. 9 columns. I.
- See also Cyanding Gold, Etc., Metallurgy of Lead, and Cost of Metallurgical Treatment.

Smelting Gold and Silver

- BLAST FURNACE GASES IN SILVER-LEAD SMELTING. By L S. Austin. Min. & Sci Press, vol 97, p 364. 17 column.
- HEAT OF FUSION OF SILVER-LEAD BLAST FURNACE SLAG. By L. S. Austin. Min. & Sci. Press, vol. 96, p. 567. ½ column.
- CALCULATION OF A SILVER-LEAD BLAST FURNACE CHARGE. By J A. Barr. Min. & Sci Press, vol. 101, p. 672, 3 columns; p. 710, 3 columns.
- SILVER-LEAD SMELTING IN TASMANIA. By T. Kapp. E & M. J, vol. 89, p. 727. 3½ columns.
- SILVER-LEAD SMELTING PRACTICE. By L S Austin. Mm. & Sci. Press, vol. 95, p. 59 1½ columns.
- SILVER-LEAD SMELTING AT EAST HELENA, MONTANA E. & M. J., vol. 87, p 350 1 column.
- SMELTER OF PENOLES COMPANY, MA-PIMI, MEXICO. By C. T Rice E. & M. J., vol. 86, p, 373. 6 columns. I
- MODERN SILVER-LEAD SMELTING AT LAURIUM, GREECE By H. F. Collins E. & M. J, vol. 87, p 881. 8½ columns I
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- CHANCELLORSVILLE GOLD AND SILVER ORE REDUCTION COMPANY. Min. Mag., vol. 9, p 451. 4 pages.
- METALLURGICAL CONDITIONS AT COBALT, ONTARIO, CANADA, 1908 By F N. Flynn. J. C. M. I., vol 11, p. 293. 42 pages.
- THE SMELTING OF COBALT ORES. By H. W. Hixon. J C M. I, vol 10, p 74. 2½ pages.
- The Reduction of Aurifferous Ores. By C. F. Stansbury. Min. Mag., vol. 2, p. 239. 5½ pages.
- METALLURGY OF THE KALGOORLIE GOLDFIELD. By G. W. Williams. E. & M. J., vol. 85, p. 345. 11 columns. I.

THE PEARCE GOLD-SEPARATION PROC-ESS. By H. V. Pearce. T A. I M. E., vol. 39, p 722 12 pages.

Cyaniding, Processes, Theory, Etc.

- THE ACTION OF CYANIDE OF POTASSIUM ON GOLD AND SOME OTHER METALS AND MINERALS. By G. A. Goyder. T. Au I M. E., vol. 1, p. 84. 15 pages. I.
- THEORY OF THE DISSOLUTION OF METALS BY CYANIDE. By J. B. Stuart. Min. & Sci. Press, vol. 101, p. 180. 27 columns
- CYANIDATION OF ORE CONTAINING BOTH COARSE AND FINE GOLD. Mim. & Sci Press, vol. 95, p. 709, 2½ columns; p 742, 1 column; p. 775, 2½ columns
- Tests on Acid Regeneration 'of Cyanide Solutions By R. P. Wheelock. Min & Sci. Press, vol. 99, p. 814. 10 columns. I
- Table for Standardizing Sump So-LUTIONS. By C. W. Hess. Min. & Sci. Press, vol 101, p. 445. Table.
- THE DETERMINATION OF CONSTANTS IN WORKING CYANIDE SOLUTIONS. By G W Williams P. C M. & M. Soc. S. A, vol. 5, p 13, 7½ columns; p. 54, 7½ columns
- RAPID ESTIMATION OF PULP IN CYANIDE TANKS. By M. R. Lamb. E. & M. J., vol. 89, p. 160. 2 columns.
- SPECIFIC GRAVITY ESTIMATION OF PULP. By F. B. Hyder. M & M., vol 31, p. 715. 37 columns D.
- CARBON AND CELLULOSE IN CYANIDE SOLUTIONS. By A J Clark and W. J. Sharwood. Min. & Sci. Press, vol. 100, p. 554. 5 columns
- GRAPHITE: An Obstacle to Good Cyaniding. By M. W. Von Bernewitz. Min. & Sci Press, vol. 99, p. 758. 22 columns. I.
- Two Deterrents to the Dissonution of Free Gold in the Cyande Process By D. Simpson. T. I. M. & M., vol. 17, p. 330. 1 page.

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- RECOVERY OF ZINC FROM SOLUTIONS.

 M. & M, vol. 30, p. 378 12 columns
- THE LABORATORY IN ITS RELATION TO THE CYANIDE PROCESS. By G A. Byrn. T. Au. I. M E, vol 4, p. 173. 13½ pages.
- THE ELIMINATION OF GOLD BEARING SOLUTION FROM SANDS. By W A. Caldecott and A. McA. Johnston. P. C. M. & M. Soc. S. A., vol 8, p. 153. 12 columns. I.
- OKIDATION AND CYANIDATION. By H. A. Megraw. E. & M. J, vol 88, p. 645. 4½ columns. D.
- THE DESTRUCTION OF CYANIDE. By J. Moir. P. C. M & M Soc. S. A, vol. 10, p. 433. 324 columns D.
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- See also CHEMICAL ANALYSIS IN CYA-NIDING
- Bromo-Cyaniding of Gold Ores. By E. W. Nardin. Mm. & Sci Press, vol. 97, p. 562. 5½ columns
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- Lime Reaction in Cyaniding. By T.P. Holt. M. & M., vol 31, p. 475 12 columns
- Notes on the Estimation of Caustic Lines. By E. H. Croghan P C. M. & M. Soc. S. A., vol. 8, p. 37, 11 columns; p. 84, 1½ columns; p. 122, 11 columns; p. 145, ½ column; p 183, 8 columns; p. 206, 6 columns.

- LABORATORY TESTS ON THE USE OF COARSE AND FINE LIME FOR CYANIDING By W. J. Sharwood P C M. & M, Soc S A, vol 8, p. 293. 9½ columns. D
- AUTOMATIC ZINC DUST FEEDER. By J S Colbath E. & M. J, vol 89, p 453. 2 columns I
- A Novel Washing and Leaching Apparatus. By A. Gradenwitz E & M. J., vol 86, p 227 2 columns I.
- New Cyanide Device. By L. Fraser. Min. & Sci Press, vol 101, p 504 2½ columns. I.
- A CHEAP FORM OF CYANIDE PLANT. By C Hunter. T I M & M, vol. 17, p. 268. 8 pages
- Home-Made Cyanide Plant By W. F Boericke and B L Eastman. Mm. & Sci. Press, vol. 97, p 712. 12 columns.
- A ROTARY EXTRACTOR FOR PRECIOUS METALS FROM SOLUTIONS. By W. D'Arcy and E. T. Rand. P. C. M. & M., Soc. S A, vol 10, p. 201 6 columns. I.
- THE KIDNEY PULP DISTRIBUTOR BY C T Rice E & M J, vol 90, p. 1046 3½ columns. I
- CYANIDATION WITH THE BROWN VAT. By F. Narvaez Min. & Sci. Press, vol 95, p 689. 12 columns I.
- A Modification of Pachuca-Tank Practice. By A. J. Yager. Min. & Sci Press, vol. 101, p. 539 2 columns. I.
- CONTINUOUS AGITATION SYSTEM AT ESPERANZA. By M. A. Kuryla E & M. J., vol. 90, p. 213. 3\frac{2}{3} columns. I.
- ARRLIFT AGRITATION IN CYANIDING P. C. M. & M. Soc. S A, vol 8, p 358. 13 columns.
- Notes on Air Agitation By M. R. Lamb E & M. J, vol. 86, p. 901 3 columns.
- AGITATION BY COMPRESSED AIR BY F C Brown Min. & Sci Press, vol. 97, p. 424 62 columns I

- Assisting the Solution of Gold in the Cyanide Process by Compressed Air By A. F. Crosse P. C. M. & M. Soc. S. A., vol. 8, p. 36. 1 column
- See also Compressed Air in Mining.
- CYANIDE LIXIVIATION BY AGITATION By W M. Brodie. E. & M J, vol 87, p. 695. 3½ columns I.
- A NEW METHOD OF AGITATING CYANIDE PULPS. By E G. Spilsbury E. & M. J, vol. 89, p. 662. 3 columns
- METHODS OF PULP AGITATION By L M Kniffen Min & Sci Press, vol 100, p. 824. 2½ columns
- AGITATOR FOR CYANIDE TESTS. By G. H. Clevenger. Min. & Sci Press, vol. 98, p. 759. 1 column. I
- Brown Type of Laboratory Agrator By T. S. Lawlor. Min. & Sci Press, vol. 99, p. 197. 2½ columns. I.
- COMBINED AGITATOR AND VACUUM-FILTER FOR CYANIDING Min. & Sci. Press, vol. 96, p. 459. 1 column. I.
- PRESENT TENDENCIES IN CYANIDE PRACTICE. By M R. Lamb E. & M. J, vol. 90, p 855 11\frac{3}{4} columns.
- PROGRESS IN CYANIDATION IN 1909. By A. James. Min & Sci. Press, vol 98, p 47. 13 columns I
- IMPROVEMENTS IN THE CYANIDE PROCESS. By B. MacDonald Mm. & Sci. Press, vol. 100, p. 798. 4 columns. I.
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- PROPOSED SIMPLIFICATION OF THE CYANIDE PROCESS. By B Micrisch. E & M J., vol 89, p. 1327. 4 columns. I.
- PROGRESS AND DEVELOPMENTS IN CYANIDE PRACTICE. By M. R. Lamb. E & M. J, vol. 89, p. 178. 5 columns.

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- Notes on Cyanidation By L. D. Bishop. E & M. J, vol. 87, p 842. 62 columns I.
- IMPROVEMENT IN CYANIDE PRACTICE. By E G. Spilsbury. T. A I. M E., vol. 41, p. 367 12 pages. I.
- Beginnings of Cyanidation. By J. McCombie Min Mag. London, vol. 4, p 456 2 columns
- DEVELOPMENTS IN CYANIDE PRACTICE.

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 31, p 597. 8 columns I.
- Some Modern Methods in Ore Treatment by Cyanidation. By E. O. Watt T. Au. I. M. E., vol. 9, p. 76. 18 pages. I
- Notes on the Working of the Mc-Arthur-Forest Process for Extracting Gold. By G A. Goyder T Au I. M. E, vol 3, p 159 12 pages
- THE CLANCY PROCESS Lixiviation Process By J C Clancy. Min. & Sci Press, vol. 101, p 862. 5\frac{1}{2} columns
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- THE ADAIR-USHER PROCESS. By A. Adair. P. C. M. & M. Soc S. A, vol. 8, p. 331, 18½ columns, D, vol 9, p. 23, 2 columns; p. 48, 5 columns; p. 94, 5 columns; p. 118, 3 columns; p. 158, 7½ columns.
- THE NEW CLANCY CYANIDE PATENTS E & M. J, vol. 90, p. 701. 9 columns.
- RECENT DEVELOPMENTS IN THE ATTEMPT TO AMEND THE CYANIDE PATENT. By G G. Turri T. Au. I M. E., vol. 4, p. 195. 20 pages CYANIDATION OF CONCENTRATE. By F. C Brown Min & Sci. Press.

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- CYANIDING CONCENTRATE AT TARACOL, KOREA By J. D. Hubbard. Min & Sci. Press, vol. 99, p. 471. 5½ columns.
- NOTES ON THE CYANIDE TREATMENT OF CONCENTRATES. By A. Grothe. E & M J, vol 88, p. 668. 3½ columns I
- CYANIDATION OF CONCENTRATES. By A E Drucker. Min & Sci Press, vol 100, p 416 42 columns. I.
- NOTE ON THE CYANIDING OF CONCENTRATES BY PERCOLATION By A. L. Edwards P C. M. & M. Soc. S. A, vol. 5, p. 345. 1½ columns.
- Last Drainings. By H A. White. P. C M & M Soc. S. A., vol. 7, p 239, 9 columns, D.; p. 329, 4 columns; p. 407, 8 columns, D.; vol 8, p. 15, 2½ columns
- A QUICK TREATMENT BY CYANIDE OF "BLACK SANDS." By B V Burnett. P C M. & M Soc. S A., vol 6, p 240, 2 columns; p. 277, 1 column, p 316, 1 column; p. 344, 12 columns
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- Sand Collecting and Washing. P. C. M. & M. Soc. S. A., vol. 8, p. 391. 12 columns.
- See also SAND TREATMENT.
- Notes on the Precipitating Effects of Substances Containing Various Forms of Carbon and Cellulose on Cyanide Solutions Containing Gold and Silver. By A. J. Clark and W. J. Sharwood. P. C. M. & M. Soc. S. A., vol. 10, p. 234, 8 columns, p. 405, 1 column.

- PRECIPITATION FROM CYANIDE SOLU-TIONS BY ZINC SHAVINGS AND DUST: A Comparison of Results and Costs. By A. J. Clark. P. C. M & M. Soc. S A., vol 9, p. 222, 3 columns; vol. 10, p. 205, 3 columns
- EXPERIMENTS ON THE PRECIPITATION OF GOLD FROM CYANIDE SOLUTION BY CARBON IN LIME By E. H Croghan. P C M & M Soc. S. A, vol 10, p. 391 5 columns
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- Notes on Precipitation. By M. Smith. P. C. M. & M., Soc S. A., vol 9, p. 300. 4½ columns; p 351, 1½ columns.
- ZINC DUST PRECIPITATION. By A. J. Clark. Min. Mag London, vol. 4, p. 289. 7½ columns. I.
- ZINC DUST PRECIPITATION AT THE HOMESTAKE MINE. By R Linton. E. & M. J, vol 88, p 199. 11 columns.
- ZINC DUST PRECIPITATION AT CERRO-PRIETO By R. Linton. P. C. M. & M Soc. S A, vol 10, p. 60. 2½ columns.
- ZINC DUST PRECIPITATION AT MERCUR, UTAE. E. & M. J., vol 86, p. 79. 1 column.
- ZINC DUST PRECIPITATION AT CERRO-PRIETO. By Robt Linton P. C. M. & M. Soc. S. A, vol. 9, p 74, 5 columns; p. 165, 3 columns, p. 207, 1½ columns; p 232, 1 column.

- ZINC BOX PRECIPITATION AT PARRAL, MEXICO E & M J. vol 86, p. 122. 12 columns
- THE "WHITE PRECIPITATE" OF THE PRECIPITATING BOXES IN THE CYANIDE WORKS By A. Prister P. C. M. & M. Soc. S. A, vol. 5, p. 62, 1 column, p. 75, 8 columns; p. 129, 10½ columns; p. 148, 5½ columns, p. 171, 6 columns; p. 310, 1½ columns
- DE WILDE PRECIPITATION PROCESS. By G. Witteveen. M & M., vol. 31, p. 342. 3½ columns.
- THE TREATMENT OF SLIMES BY CYANIDATION AND ELECTRICAL PRE-CIPITATION ON MERCURY By F. T Mumford T Au I. M. E, vol 9, p. 96. 10 pages. I
- CYANIDING SLIME By M R. Lamb T A. I. M. E, vol 40, p. 775. 4½ pages. I.
- SLIME TREATMENT IN CYANIDING T A. I. M. E., vol. 40, p 768 6 pages I
- Cyaniding Slime T. A I M E, vol. 40, p 775 4½ pages. I
- SETTLING SLIME IN CYANIDE TREAT-MENT P. C. M & M Soc S A., vol. 9, p. 411. 1 column.
- IMPROVEMENTS IN SLIME TREATMENT By M. Torrente P. C. M & M. Soc. S. A., vol. 5, p. 46, 6½ columns, I.; p 83, 1½ columns; p. 100, 1½ columns; p. 127, 3 columns; p 150, 4 columns; p 179, 3½ columns
- Notes on Improvements in the Cyanide Treatment of Sands and Slimes. By C H Pead. P. C M. & M, Soc. S A., vol 6, p. 76, 4 columns; p. 194, 2 columns; p. 223, 3 columns, p. 249, 3\frac{1}{2} columns
- COLLOIDAL SILICIC ACID IN SLIMES By W. A. Caldecott. P. C. M. & M. Soc. S. A., vol 7, p. 217. 1 column.
- THE TREATMENT OF ACCUMULATED SLIME, AND THE USE OF FILTER PRESES FOR CLARIFYING SLIME SOLUTION AND BY-PRODUCTS. By

- J. D O'Hara. P C M. & M Soc S A, vol. 10, p. 342, 5 columns, p 403, 2 columns, I.
- TREATMENT OF A CONCENTRATE-SLIME By A E. Drucker Min. & Sci Press, vol 96, p. 458. 5 columns. I.
- THE SEPARATION OF SLIME IN CYANIDE TREATMENT. By H. G. Nichols. Min. & Sci. Press, vol 96, p 563. 7 column I.
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- A METHOD OF SETTLING SLIMES, AS APPLIED TO THEIR SEPARATION FROM SOLUTION IN CYANIDE TREATMENT By H G Nichols. T. I M. & M, vol 17, p. 293. 38 pages I
- CYANIDE TREATMENT OF SLIME P. C M. & M. Soc. S. A, vol. 10, p. 322. 3½ columns.
- METHOD OF TESTING SLIME. By G. J. Young. Min. Mag, London, vol. 3, p. 133. 2½ columns I
- SLIME TREATMENT BY CYANIDATION. E & M J, vol 88, p 688. 5½ columns.
- A PROPOSED NEW SYSTEM FOR THE CYANIDE TREATMENT OF SLIMES. By F. McCann. E & M. J., vol. 88, p. 688. 5½ columns.
- Cyaniding Slimes. E. & M. J, vol. 89, p 462. 1½ columns. I.
- ALL-SLIME TREATMENT OF ORE IN CYANIDE PLANTS. By H. A Megraw. E. & M J., vol. 89, p. 319. 5 columns. I.
- CYANIDING SLIMES. E. & M. J, vol. 89, p. 319. 5 columns. I
- CYANIDING SLIME: Process By E. B Wilson. M. & M., vol. 29, p. 59. 6 columns. I.
- SLIME TREATMENT IN CYANIDING. By E. B. Wilson. M. & M., vol. 29, p. 59. 6 columns. I.

- SLIME TREATMENT IN CYANIDING. M. & M, vol. 29, p. 129, 9 columns, I.; p. 187, 3 columns, I, p. 224, 6 columns, I
- SLIMING ORE FOR CYANIDATION. By M. R. Lamb Min. & Sci Press, vol. 95, p. 658 1½ columns
- SLIME SETTLING BEFORE CYANIDING. E & M. J., vol 87, p. 837 3 columns. I.
- ALL-SLIMING. By E M Hamilton. Min. & Sci. Press, vol 99, p 255. 5½ columns I.
- THE CHEMICAL CONTROL OF SLIMES. By H. E. Ashley T. A I M. E., vol. 41, p. 380 16 pages. I
- SLIME TREATMENT AT VARIOUS CY-ANIDE PLANTS. Min. & Sci. Press, vol 95, p. 46. 4½ columns.
- THE UTILIZATION OF WASTE HEAT IN SLIMES TREATMENT. By A. Salkinson. P. C. M & M. Soc S A, vol 7, p 403, 6 columns, vol 8, p. 52, 1 column; p 81, 7½ columns, p 142, 6½ columns.
- FURTHER NOTES ON THE UTILIZATION OF WASTE HEAT IN SLIMES TREATMENT By A Salkinson P C. M & M. Soc. S. A., vol 9, p. 308. 31 columns
- Proposed Process for Treatment of Zinc Gold Slimes Before Smelring By C. E. Meyer. P C. M. & M. Soc. S. A., vol 6, p. 361, 6 columns; p. 83, 1 column; p. 139, 2 columns
- THE DORR CONTINUOUS SLIME THICK-ENER. M. & M., vol. 30, p 79. 13 columns I.
- SLIME TREATMENT AT KALGOORLIE.

 By M W. von Bernewitz. Min. &
 Sci Press, vol 95, p 743 2 columns I.
- SLIME TREATMENT AT THE SANTA NATALIA MILL. By C Shapeley. E. & M. J., vol. 90, p. 358. 4 columns I.
- ALL-SLIME CYANIDE PROCESS AT HACIENDA DE LA UNION. E & M. J., vol. 86, p. 991. 2 columns.

- SLIME TREATMENT AT THE TAJO, ROSARIO MILL, MEXICO T. A. I M E., vol. 41, p 345 11 pages. I
- SLIME TREATMENT AT THE NORTH STAR MINES, CALIFORNIA E & M. J., vol 90, p. 410 1 column.
- FILTER PRESS TREATMENT OF SLIMES. By H R Edmans T Au I M E., vol 11, p. 77. 19½ pages. I
- Notes on the Use of the Filter Press for Clarifying Solutions. By S J. Truscott and A Yates. P. C. M & M Soc. S. A, vol 7, p 3, 2½ columns; p 45, 2 columns; p 83, 2 columns; p 269, ½ column; p. 321, 2 columns.
- FILTERING SLIMES By E Parrish. Min & Sci Press, vol 99, p. 493. 2½ columns.
- FILTER PRESS WORK. M. & M., vol 31, p 600 1 column I.
- FILTER PRESSING SLIMES By M W. von Bernewitz Min & Sci. Press, vol 101, p 377. 3 columns
- FILTER PRESS WORK IN CYANIDING CONCENTRATE Min. & Sci. Press, vol 100, p 416 3 columns I
- VACUUM FILTRATION By A. Nichols. Min & Sci Press, vol 100, p. 395. 2 columns. I.
- FILTER PRESSING. P. C. M. & M. Soc S A, vol. 10, p. 222. ½ column.
- THE FILTER PRESS IN CYANIDING BY E B Wilson M. & M, vol 29, p 129, 9 columns, I; p 187, 3 columns, I., p 224, 6 columns, I
- FILTERING SLIMES IN CYANIDING. Min & Sci. Press, vol 95, p. 715. 3 columns. I
- FILTERING GOLD SLIME. By E. Jensen E. & M. J, vol. 87, p. 902. 2 columns. I.
- CONTINUOUS VACUUM-FILTER MA-CHINE By B Hunt. Min & Sci. Press, vol. 97, p. 430. 3 columns. I.
- CONTINUOUS SLIME FILTER By R. Schorr Min & Sci Press, vol. 97, p. 194. 4 columns. I.

- OLIVER CONTINUOUS FILTER By A H Martin Min & Sci Press, vol. 99, p 715. 2 columns I.
- USE OF THE OLIVER CONTINUOUS FILTER AT THE NORTH STAR MINES, CALIFORNIA. E & M. J, vol. 90, p. 411. 1 column I.
- THE OLIVER FILTER PRESS AT GRASS VALLEY E & M J., vol. 87, p 440. † column I.
- THE OLIVER CONTINUOUS FILTER AT MINAS DEL TAJO By G. A. Tweedy and R. L. Beals. E & M. J., vol. 89, p. 506 5 columns. I.
- THE BURT RAPID CYANIDE FILTER. By E Burt. Min. & Sci Press, vol. 95, p 717. 3½ columns. I.
- THE BUTTERS' SLIME-FILTER AT THE CYANIDE PLANT OF THE COMBINA-TION MINES COMPANY, GOLDFIELD, NEVADA By M. R. Lamb T A I. M. E, vol 38, p 200. 10 pages. I
- THE BUTTERS' FILTER USED AT THE MONTEZUMA MILL, COSTA RICA E. & M. J., vol. 90, p 716 2 column.
- THE SWEETLAND FILTER PRESS BY E J Sweetland E & M J, vol 85, p 359 3 columns I
- THE HUNT CONTINUOUS SLIME FILTER
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- FILTERING SLIMES BY RIDGEWAY FILTER E. & M. J, vol 86, p 121. 1 column.
- Pressure Filtration. By E. J. Sweetland Min. & Sci Press, vol. 99, p 853 4½ columns I
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- VACUUM SLIME-FILITERS AT GOLD-FIELD. By A. M Smith Min. & Sci. Press, vol 99, p. 65. 2 columns.
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- Vacuum-Filtering of Slime at Waihi, New Zealand P. C. M & M, Soc S. A, vol 8, p 13. 2 columns
- FILTRATION OF SLIMES AT EL ORO, MEXICO. By D L. H. Forbes. E & M J, vol 86, p. 458. 32 columns. I.
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- SOME SUGGESTIONS ON THE CYANID-ING OF TAILINGS By A Prister. P C M & M. Soc S A., vol. 5, p 338, 6½ columns; vol. 6, p 113, 1½ columns, p. 190, ¾ column.
- A Proposed Method of Treating Sand Residue Dumps. By S. J. Truscott and A. Yates. P. C. M. & M. Soc S A., vol 6, p. 213. 3½ columns, vol. 7, p. 293, 3 columns.
- THE CYANIDING OF REFRACTORY TAILINGS ON THE WITWATERSRAND. BY W. H. C. Lovely T. Au. I. M. E., vol. 11, p. 104. 9 pages.
- RE-TREATMENT OF TAILING AT OROYA-BROWNHILL. Min. Mag London, vol 4, p. 460 1½ columns. I. Flowsheet
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- CYANIDATION OF SILVER ORES. By W. J. Sharwood. Min. & Sci Press, vol. 97, p 418. 5 columns.
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- TREATMENT OF THE MOUNT REID AURIFEROUS ORDS WITH THE HELP OF CYANIDE OF POTASSIUM By L Williams. T. Au. I. M E, vol 4, p. 45. 5 pages.
- EXPERIMENTS ON THE ASSAY OF ACID WASHES RESULTING FROM THE CYANIDE "CLEAN-UP" BY THE USE OF BISULPHATE. By L. J. Wilmoth. P. C. M & M Soc. S. A., vol. 10, p. 136. 5½ columns.
- THE USE OF THE BISULPHATE OF SO-DIUM IN THE CLEAN-UP. By J. E. Thomas and G. W. Williams. P. C. M & M. Soc. S A, vol 5, p. 334, 7 columns, vol. 6, p. 82, 4 columns; p. 113, \(\frac{2}{3}\) columns, p 156, 3 columns.
- CYANIDE WORKS' CLEAN-UP PRACTICE.

 By J. E. Thomas. P. C M. & M,

 Soc. S. A, vol 7, p. 109, 3 columns;

 p. 181, 2\frac{3}{4} columns, p. 211, 5 columns;

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- Notes on Lime, Clean-Up, Etc. By G W. Williams. P. C. M. & M., Soc S. A., vol. 5, p. 251, 7½ columns; p. 314, 2 columns; vol. 6, p. 19, 4 columns, p. 51, 3 columns; p. 78, 5 columns
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- CYANIDATION AT THE ALASKA-TREAD-WELL MINES By T. A. Rickard. Min Mag., London, vol. 3, p. 280. 2 columns
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- THE CYANIDE PRACTICE AT THE EL ORO MILL, MEXICO. E. & M. J, vol 87, p 683. 23 columns. I.
- CYANIDING AT TAJO, ROSARIO, MEXICO. T. A. I. M. E, vol 41, p. 339 30 pages. I
- Notes on the Cyanidation of Silver-Gold Ores at Guanajuato, Mexico. By J A. Reid J. M Soc N S., vol 14, p. 37 12½ pages.
- DEVELOPMENT OF THE CYANIDE PROC-ESS FOR SILVER ORES IN MEXICO By B Macdonald. E & M J, vol. 85, p 802 42 columns
- CYANIDATION OF SILVER ORES AT GUANAJUATO, MEXICO By B Macdonald E. & M. J., vol. 85, p 710. 23 columns. I
- PRESENT CYANIDE PRACTICE IN MEXIco By M. R. Lamb. E & M. J, vol 85, p. 703 20 columns. I
- CYANIDING AT THE NEW ESPERANZA MILL, EL ORO, MEXICO. E & M J, vol 86, p. 760. 5 columns I.
- Silver Cyaniding in Mexico E & M. J., vol 86, p 846. $\frac{2}{3}$ column
- SILVER CYANDING IN MEXICO By J B Empson. E & M J, vol 86, p 667 3½ columns
- CYANIDATION OF SILVER ORES, PACHU-CA, MEXICO By C T Rice E & M. J., vol. 86, p 647 18½ columns. I
- CYANIDE TREATMENT AT THE JESUS MARIA AND FLORES MILLS E. & M. J., vol 86, p 616. 10 columns.
- CYANIDING AT THE YOQUIVO MILL, WESTERN CHIHUAHUA. E & M J, vol. 90, p. 812 1 column
- SILVER CYANIDING AT THE SAN RAFAEL MILL, PACHUCA. By E Girault. E. & M. J., vol. 90, p. 67. 6½ columns. I.
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- Cyanidation of Silver Ore in Mexico. By W. A. Caldecott.

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- CYANIDATION IN MEXICO By F J Hobson Min & Sci Press, vol. 97, p 159, 4 columns; p 182, 6 columns, I.
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- THE CYANIDING OF SILVER ORES IN MEXICO By A. F. J. Bordeaux. T. A. I. M. E., vol. 40, p. 764, 12 pages, I., Discussion, p. 917, 2 pages
- CYANIDING AT THE TONOPAH EXTEN-SION MILL Min & Sci. Press, vol 100, p. 522. 4 columns.
- CYANIDING AT THE FLORENCE GOLD-FIELD MILL E & M J., vol 89. p. 367 2 columns
- CYANIDING AT THE MONTGOMERY-SHOSHONE MILL. By P E Saun. E & M. J., vol. 89, p. 217. 4½ columns I.
- CYANIDING AT THE PITTSBURG SILVER PEAK MILL, NEVADA. M. & M., vol. 29, p 569 8½ columns. I.
- CYANIDING AT THE DESERT MILL, MILLERS, NEVADA Min. & Sci Press, vol. 95, p 494 8½ columns I.
- CYANIDATION AT THE GOLDFIELD MILL. E & M. J., vol 86, p. 471. 6 columns. I.
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- CYANIDATION IN THE MALAY STATES. By H F Lofts. P. C. M & M. Soc S A, vol 8, p. 340. 3 columns.
- RECONSTRUCTION OF THE AUGUSTIAS
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- See also THE METALLURGY OF GOLD AND SILVER.
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Cyaniding Plants

- VARIABLES INFLUENCING CYANIDE PLANT DESIGN By M. R. Lamb. E. & M. J., vol. 90, p. 8 2½ columns I.
- SMALL CYANIDE PLANTS. E. & M. J. vol. 86, p 457. 1 column.
- HOMEMADE CYANIDE PLANT. P C. M. & M. Soc S. A, vol. 9, p. 278. 2 columns.
- CYANIDING AT THE MONTANA-TONO-PAH MINING COMPANY'S PLANT Min. & Sci. Press, vol. 97, p. 324. 7½ columns. I
- CYANIDING AT THE NEVADA GOLD-FIELD REDUCTION WORKS. Min & & Sci. Press, vol 97, p. 254. 22 columns. I

- THE STANDARD CONSOLIDATED CYANIDE MILL By S. F. Shaw E. & M. J, vol 87, p 483. 6½ columns I
- CYANIDING AT PLANT OF THE SIMMER
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 WORKS Min & Sci Press, vol 99,
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- A SKETCH OF THE SMALL CYANIDE PLANT AS ERECTED AND WORKED IN RHODESIA By F J. Thomas. P C M. & M Soc. S A, vol 10, p. 82, 7 columns; p. 207, 2½ columns
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- CYANIDE MILLS, GUANAJUATO DE-VELOPMENT COMPANY. By C. T Rice E. & M J, vol. 86, p. 947, 11²/₄ columns, I; p 997, 15 columns, I.
- VETA COLORADO CYANIDE MILL, PARRAL, MEXICO By C T Rice E & M J., vol. 86, p 120 8 columns.
- AN ALL-SLIME CYANIDE PLANT AT GUANAJUATO, MEXICO By E Shapley. E. & M J, vol 88, p. 68. 13 columns.
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Chlorination Processes

CHLORINATION IN CALIFORNIA. By W E Darrow. Min & Sci. Press, vol. 97, p. 609. 3\frac{3}{4} columns.

- REFINING GOLD BY CHLORINE GAS. Min. & Sci. Press, vol 22, p 278, 12 columns; p 297, 12 columns
- THE MALM DRY CHLORINATION PROC-ESS By R. L. Herrick M. & M, vol. 30, p 370. 9 columns. I.
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- See also Cost of Metallurgical Treatment

Refining Gold and Silver

- FLUXING OF GOLD SLIMES By C E.
 Mayer P. C M. & M Soc. S A,
 vol 5, p. 168, 4 columns, p. 211,
 1½ columns, p 341, ½ column, vol. 6,
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- TREATMENT OF THE GOLD AND SILVER PRECIPITATE AT DOS ESTRELLAS By W. Neal. Min & Sci Press, vol 98, p. 327. 2 columns.
- SMELTING GOLD PRECIPITATES AND BULLION WITH OIL FUEL By A. Yates. E. & M. J, vol. 88, p. 473. 3½ columns.
- ELECTROLYTIC REFINING OF BULLION IN THE UNITED STATES MINTS. By H. J Slaker. E. & M. J., vol. 90, p. 214. 2 columns.
- ELECTROLYTIC REFINING OF GOLD. By B. T. K. Rose Min. & Sci. Press, vol. 98, p. 890. 1 column.

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- RESULTS OF BAG-HOUSE EXPERIMENTS IN CONNECTION WITH TAVENER'S PROCESS. By H. Rusden P C M & M. Soc S. A, vol 5, p 288 2 columns. I.
- THE TAVENER PROCESS By K. L. Graham. P C. M & M. Soc S A, vol 5, p. 315. 2 columns.
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Metallurgy of Iron and Steel

- ABOUT SOME OF THE PROPERTIES OF STEEL By A E Hunt P. E. Soc W Pa, vol 2, p 271, 8 columns, p 251, 6 pages
- THE SOLID NON-METALLIC IMPURITIES IN STEEL (SONIMS). By H. D. Hibbard. T A. I. M E., vol. 41, p. 803. 20 pages.
- ON THE CHEMICAL CHANGES WHICH PIG IRON UNDERGOES DURING ITS CONVERSION INTO WROUGHT IRON. By F. C. Calvert. Min Mag., vol 9, p 487 6 pages.
- THE DETERIORATING EFFECT OF "ACID PICKLE" ON STEEL RODS, AND THEIR PARTIAL RESTORATION ON "BAKING." P. C. M & M Soc. S A., vol. 7, p. 424. 2½ columns.
- NOTE ON SOME CAUSES OF RED-SHORT-NESS AND COLD-SHORTNESS IN IRON. By W Metcalf. P E. Soc. W Pa, vol. 2, p 217. 2 columns; p. 219, 2 columns.

- CRYSTALLIZATION OF IRON AND STEEL. By A. M. Johnston. P. C. M. & M. Soc. S. A., vol. 10, p. 3. 15 columns.
- On the Compounds of Carbon and Iron, and Their Influence on the Production of Pig Iron By A. Gurlt. Min. Mag, vol. 8, p. 40, 7 pages; p. 123, 6 pages.
- Carbon and the Properties of Cast Iron By H M. Howe. E. & M. J., vol. 86, p 943 12 columns
- THE CARBON-IRON DIAGRAM. By H. M. Howe. T A I. M. E., vol. 39, p. 3. 68½ pages. I.
- A SIMPLE IDENTIFICATION TEST FOR IRON AND STEEL. P. C. M. & M. Soc. S. A., vol 10, p. 326. 3½ columns.
- HEAT TREATMENT OF STEEL RAILS, By W. Metcalf. P. E. Soc. W Pa, vol 24, p. 135. 19½ pages. I.
- MALLEABLE CAST IRON. By B Stoughton. Sch. Mines Quart, vol 29, p. 54. 9 pages.
- STEEL CASTINGS. P. E. Soc. W. Pa, vol. 25, p. 333. 21 pages. I.
- EXTRACTION OF IRON FROM ORE AND PULP. By W. C. Brown. E. & M. J., vol. 90, p. 445. 1 column. I.
- SEPARATION OF SILICA AND ALUMINA IN IRON ORES. E. & M. J., vol. 86, p. 168. 1 column.
- INFLUENCE OF TOP-LAG ON THE DEPTHS OF THE PIPE IN STEEL INGOTS. By H M Howe T. A. I. M. E., vol. 40, p. 804. 2½ pages.
- SEGREGATION IN STEEL INGOTS. By H. M. Howe Sch. Mines Quart, vol. 29, p. 238. 3 pages.
- The Influence of Ingor-Size on the Degree of Segregation in Steel Ingors. By H. M. Howe T. A. I. M E., vol 40, p. 644. 4 pages. I.
- PIPING AND SEGREGATION IN STEEL INGOTS: Discussion of H. M Howe's Paper. T. A. I. M. E., vol. 38, p. 924. 11 pages. I.
- THE INFLUENCE OF THE CONDITIONS OF CASTING ON PIPING AND SEGRE-

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- Piping and Segregation in Steel Ingots By Henry M. Howe. T A. I. M. E, vol. 38, p. 3 105 pages. I.
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- Blow-Holes in Steel Ingots. By E Von Mallitz. T. A. I. M. E., vol. 38, p. 412 34 pages.
- STEEL HARDENING METALS. By J. H. Pratt. U. S. G. S, Mineral Resources, 1903, Mineral Resources, 1904, 58 pages
- COPPER-CLAD STEEL. By W. Tassin. E. & M J., vol 88, p 813. 3½ columns.
- CUPRO-NICKEL STEEL. By G. H. Clamer E. & M. J., vol. 90, p. 215. 2 columns.
- NEW FORMS OF STEEL FOR NEW USES. By R. B Woodworth. P. E. Soc. W. Pa., vol 24, p 40 50 pages I.
- LABORATORY METHODS FOR MAKING ALLOYS OF IRON AND VANADIUM. By W. L. Morrison E. & M. J, vol 87, p. 1035. 1½ columns. I
- Vanadium Steel. By J. K. Smith. P. E Soc. W Pa, vol 23, p 423. 26 pages.
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- MANGANESE STEEL. By W. S. Potter. J. W. Soc. E, vol. 14, p. 212. 28 pages. I
- THE Use of Ferro-Alloys. E. & M. J., vol. 85, p 363. ½ column.

- Some Experiments on Smelting Titaniferous Iron Orb. By G. H. Stanley. P. C. M. & M. Soc. S. A., vol. 10, p. 162, 19½ columns, I.; p. 345, 11½ columns, I.; p. 253, 2 columns.
- THE RELATION OF SLOW DRIVING TO FUEL-ECONOMY IN IRON BLAST FURNACE PRACTICE. By J. B. Miles. T. A I. M. E., vol 39, p 540. 4½ pages.
- THE WORK OF THE TESTING DEPARTMENT OF THE WATERTOWN ARSENAL, IN ITS RELATION TO THE METALLURGY OF STEEL. By J. E. Howard. T A. I. M E, vol 39, p. 223. 5½ pages.
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- THE UNIFORM NOMENCLATURE OF IRON AND STEEL: Discussion of the Report of Committee 24 of the International Association for Testing Material, presented at the Brussels Congress, 1906, and republished in Bi-monthly Bulletin, No 20, March, 1908, pp. 227–237, but not included in this volume. T. A I M E, vol. 39, p. 924. 6 pages.
- THE AIR-FURNACE PROCESS OF PRE-PARING WHITE CAST IRON FOR THE MALLEABLIZING PROCESS. By H. M. Howe and Enrique Gouceda. T. A. I. M E. vol. 39, p. 765. 91 pages. D.
- OXYGEN PROCESS FOR MELTING OF IRON By A. Gradenwitz M. & M., vol. 31, p. 146. 4 columns I.
- A NEW MARTIN FURNACE WITH DOUBLE HEARTH. E. & M J, vol. 88, p. 728. 3\frac{1}{2} columns. I.
- ORE HANDLING BRIDGE AT DU-QUESNE STEEL WORKS E. & M J., vol. 87, p. 944. 2 columns. I.

- The Rolling of Special Sections of Iron and Steel. By W. McKee. J. W. Soc. E, vol. 14, p 729. 15 pages. I.
- CALCINATION ("RUCKING") OF IRON-STONE IN NORTH STRAFFORDSHIRE, ENGLAND. T. I. M. E, vol. 27, p. 107. 5 pages. I.
- ROASTING AND SMELTING PLANT AT LONDONDERRY IRON WORKS. By R. G Leckie, J. M. Soc. N S, vol. 1, p. 50, pt. 3. 2½ pages.
- NATIVE IRON SMELTING IN HAUTE GUINÉE (WEST AFRICA). By J. M. Campbell. T. I. M. & M., vol 19, p. 458. 5 pages. I.
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- THE UNITED STATES STEEL CORPORA-TION. By F. Hobart. E & M J, vol. 87, p. 659. 7½ columns.
- Introduction of the Thomas Basic Steel Process in the United States. By G. W. Maynard. T A I. M. E, vol. 41, p. 280, 16 pages; p. 903, 1 page.
- THE COLLOSEUS PROCESS FOR MAKING SLAG CEMENT. By F. A. Talbot. E & M. J, vol. 90, p 608 4½ columns. I.
- On the Progress and Present Condition of the Manufacture of Iron in the United States. By E F. Pletschke. Min. Mag., vol. 10, p. 223. 6 pages.
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- THE IRON MANUFACTURE OF GREAT BRITAIN. By W. Truran. Min. Mag, vol. 5, p. 459, 21½ pages, I, vol. 6, p. 1, 14 pages; p. 225, 11½ pages, I.; p. 304, 11½ pages, p. 398, 11½ pages.
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- RECENT DEVELOPMENTS IN THE MET-ALLURGY OF IRON. By B. Neumann. E. & M. J., vol. 89, p. 1068. 9 columns.
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Boasting Ores, Roasting Furnaces,Etc.

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Smoke Problem: Flue Dust, Fume, Bag Houses, Chimneys, Etc.

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- The Estimation of Carbon Monoxide in Mine Gas By E. H. Weiskopf. P. C. M. & M. Soc. S. A, vol. 9, p. 258, 15½ columns, I.; p. 307, 1½ columns
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- SHORT TALKS ON MINING LAW By A. H. Ricketts E & M. J, vol 85, p. 948, 4½ columns; p 1037, 5½ columns; vol. 86, p 81, 4 columns; p. 117, 6½ columns; p 168, 1½ columns; p. 212, 3½ columns; p 363, columns; p. 460, 4 columns; p. 527, 3½ columns; p 570, 9 columns; p 851, 5 columns; vol. 87, p 547, 8 columns; p. 639, 2½ columns.
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- TWENTY-THREE YEARS A MINING EDITOR By C G. Yale. Min & Sci Press, vol 100, p. 711 8 columns. I.
- THE EARLY HISTORY OF ANTHRACITE MINING. By H H. Lawrence. Coal Mining Supplement, E & M. J., vol. 88, p. 1. 9 columns I.
- THE FIRST COAL SHAFT IN INDIANA. E. & M. J, vol 85, p. 176. ½ column.
- HISTORY OF COAL MINING IN PICTOU COUNTY, NOVA SCOTIA. E & M. J., vol. 85, p. 1102 1 column.
- THE LAST OF THE JERSEY FORGES. By E. P. Buffet. E. & M J., vol 85, p. 309. 4½ columns. I.
- CHRONOLOGY OF LEAD MINING IN THE UNITED STATES. By W. R. Ingalls. T. A. I. M. E., vol. 38, p. 644. 12 pages.

- SILVER: History and Occurrence. By T. F. Van Wagenen Min & Sci. Press, vol 97, p. 392. 71 columns
- HISTORY OF MINING ON THE COMSTOCK Min & Sci. Press, vol. 97, p 496, 3 columns; p 570, 13⁷/₄ columns, I.
- DECLINE AND REVIVAL OF COMSTOCK MINING. By W Symmes Min. & Sci. Press, vol 97, p 496, 8½ columns, I.; p. 570, 13½ columns, I.
- COMSTOCK BEGINNINGS By J. T Goodman. Min. & Sci Press, vol. 99, p. 19. 6 columns. I
- DISCOVERY OF THE GREAT COMSTOCK MINE. By D. De Quille Min & Sci. Press, vol 99, p. 22. 3½ columns.
- See also NEVADA.
- DISCOVERY OF THE AMERICAN NETTIE MINE E. & M. J, vol 90, p 758 12 columns
- The True Story of the Camp Bird Discovery. E. & M. J., vol. 89, p. 1266 2½ columns.
- DISCOVERY OF THE CAMP BIRD MINE By T F. Walsh. E & M J, vol 86, p 223. 4 columns
- EARLY COLORADO DAYS. By G. W. Maynard. Min & Sci. Press, vol 98, p. 789. 7½ columns
- MINES AND MILLS OF COLORADO By A. B Paul Min & Sci Press, vol. 20, p 18, 1½ columns; p. 34, ½ column; p. 50, ½ column, p 114, 1½ columns; p. 146, 1½ columns; p. 178, 1 column, p 210, 1½ columns; p. 234, 1 column; p 250, 1½ columns.
- HISTORY OF IRON HILL, LEADVILLE E & M.J., vol 89, p. 261 1 column. See also Colorado
- DISCOVERY OF THE GOLD ROAD MINE. By J C. Kennedy. Min. & Sci. Press, vol. 101, p. 773. 1½ columns.
- HISTORICAL RÉSUMÉ OF THE COPPER QUEEN MINE. E & M J, vol. 87, p 409. 6 columns
- EARLY COPPER MINING IN THE PROV-INCE OF QUEBEC. By J. Douglas. J.C.M I, vol 13, p. 254. 19 pages.

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- THE COPPER AND IRON REGION OF LAKE SUPERIOR Min. Mag, vol. 1, p. 261. 7½ pages.
- HISTORY OF THE OLDEST COPPER MINE
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 p. 235. 10½ columns. I.
- DISCOVERY OF IRON AND COPPER IN THE LAKE SUPERIOR REGION. T. L S. M. I, vol 14, p. 22 3 pages.
- HISTORICAL SKETCH OF COPPER MIN-ING ON LAKE SUPERIOR. By A. Meads T L S M I, vol 14, p 202. 2 pages I.
- HISTORY OF THE COPPER REGION OF LAKE SUPERIOR. Min. Mag., vol. 10, p 124 18½ pages
- See also Occurrence of Copper and Copper Ores
- THE STORY OF THE BINGHAM CANYON. By H. W MacFarren Min. & Sci Press, vol 99, p 129 3\(\frac{3}{4}\) columns. I.
- THE MINING HISTORY OF MOUNT LYELL, AUSTRALIA T Au I. M. E, vol. 10, p 41. 14 pages
- ROUND MOUNTAIN MINES AND HISTORY, NEVADA By J. P Loftus. Min & Sci Press, vol. 99, p. 568. 1½ columns. I
- OLD METHODS IN MEXICO. Min. & Sci Press, vol. 95, p. 372. 4 columns.
- HISTORY OF THE EL TIGRE MINE, MEXICO. M & M, vol. 29, p 483. 3 columns
- COAL MINING BY THE MONKS IN ENGLAND. By J B Simpson. T. I. M E, vol 39, p 573. 28 pages.
- REMINISCENCE OF MINING IN CORN-WALL. By J Vivian Min. & Sci. Press, vol. 100, p. 743 4\frac{3}{4} columns.
- HISTORY OF THE BARBERTON GOLD-FIELD. P C M. & M Soc S A, vol 10, p 122. 10 columns. I. See also Africa.
- HISTORY AND REVIEW OF THE NITER INDUSTRY OF CHILE By M R. Lamb. E. & M. J., vol. 90, p. 18. 14\frac{3}{2} columns. I.

- HISTORY OF THE COAL FIELDS OF CHILE. T. I. M. E., vol 38, p. 31. 3 pages.
- See also CHILE.
- GOLD MINES OF TIBET. By A Del Mar Min. & Sci Press, vol. 100, p. 254. 3\frac{2}{3} columns.
- THE LED MULE LODE E & M J., vol. 89, p 1146 1 column.
- Washed His Home for Gold: A Curious Incident as to Discovery of Gold. M. & M., vol. 31, p. 677. Note
- See also General Mining.

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- DUTIES OF A MINE FOREMAN IN THE BITUMINOUS FIELDS OF PENNSYL-VANIA M & M., vol. 29, p. 94. ½ column
- MINE INSPECTION. By C. De Kalb. Min & Sci Press, vol. 99, p. 497. 4 columns
- Inspection of Mines By J A. Holmes. Mm. & Sci. Press, vol. 99, p 499. 12 columns
- Anteracite Mine Inspection. By L. M Evans Coal Mining Supplement, E & M. J, vol. 88, p 20. 41 columns.
- MINE INSPECTION IN UTAH MINES. By A C. Watts. M. & M, vol 30, p. 324 42 columns
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- The Legal Duties of the Fire Boss in the Bituminous Mines of Pennsylvania M & M, vol 29, p 142. † column.
- Inspection of Coal Properties by Superintendents, Engineers, Etc. M & M, vol. 29, p. 119. 2½ columns. I
- MINE INSPECTION WITH RESPECT TO CAR ALLOTMENT. By H. B. Douglas. E. & M. J., vol. 88, p. 24. 6½ columns
- See also MINE REGULATION

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- PROSPECTING FOR PHOSPHATE ROCK. By F. F. Wilson, Jr. E & M. J, vol 86, p 1148. 1 column
- THE PROSPECTOR AND HIS FRIENDS. Min & Sci. Press, vol 95, p. 680. 2 columns. I.
- THE AMERICAN PROSPECTOR IN MEXI-CO AND HIS PROBLEMS By T. Chase E. & M J, vol 87, p. 694. 2 columns.
- Sinking Test Pits. E & M. J., vol. 88, p 328 $\frac{2}{3}$ column.
- THE VALUE OF SURFACE TRENCHING.

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- Prospecting, Developing and Mining. By R. W. Brock. Min & Sci Press, vol. 100, p 860. 2½ columns
- HUNTING METALS FOR THEIR HIDES. By H. W. Hixon E & M. J., vol. 88, p. 168. 5½ columns
- CHANCES FOR THE PROSPECTOR By H. H Edgerton Min. & Sci Press, vol. 98, p. 479. 2²/₄ columns.
- PROSPECTING FOR GOLD. M. & M, vol 30, p. 277. 1½ columns.
- PROSPECTING IN CHIHUAHUA, MEXICO By R. H. Burrows. Min. & Sci. Press, vol. 100, p. 392. 4 columns I.
- A SCIENTIFIC SEARCH FOR A NEW GOLDFIELD By R. T. Hill. E & M. J., vol. 86, p. 1157. 9 columns. I
- PROSPECTING FOR ORES OF THE GOLD-FIELD TYPE By J V Lewis E & M J., vol. 87, p. 1121 2½ columns.
- PROSPECTORS AND PROSPECTING IN NEVADA By R. T. Hill. E & M. J., vol. 86, p. 1053. 3½ columns.
- PROSPECTING IN THE BARBERTON GOLD-FIELD P. C M. & M. Soc S. A., vol. 10, p. 127 2½ columns.
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- TESTING PLACER GROUND E & M J., vol. 87, p. 223 2½ columns.
- PROSPECTING AND MINING GOLD PLACERS IN ALASKA. By J. P. Hutchins U. S. G. S., Bull 345, p. 54 24 pages 1907.
- DISCOVERY OF PLACER GOLD. E & M J., vol. 88, p. 103. 2 columns.
- TESTING PLACERS IN KOREA. By R. Y. Hanlon. Min & Sci Press, vol 101, p 475. 2 columns. I
- See also Auriferous Gravels and Hydraulic Mining.
- PROSPECTING FOR COAL. By B. Halberstadt. M. & M, vol 30, p 454. 4½ columns. I
- PROSPECTING ANTHRACITE MINES BY DRILL HOLES. By F. Lynde. E & M. J., vol. 88, p 258. 9 columns I.
- SYSTEMATIC EXPLORATION IN THE PITTSBURG COAL-SEAM. By F. Z. Schellenberg T A I M. E, vol 41, p. 225 12 pages I
- PROSPECTING DISSEMINATED COPPER ORE DEPOSITS. By C R. Keyes. E & M J, vol. 90, p. 1055 4½ columns
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- Prospecting in Siberia. Min & Sci Press, vol. 20, p. 354. 1 column.
- PROSPECTING IN THE NORTH. By H V. Winchell. Min. Mag, London, vol. 3, p 436. 4½ columns.
- PROSPECTING IN CHINA. By G. F. Ober. Min Mag London, vol. 4, p. 223. 1½ columns
- See also CHINA.
- See also Prospect Drilling, and first volume of Index, also Cost of Prospecting.

Divining

- Use of the Divining Rod Min & Sci. Press, vol. 95, p. 500. \(\frac{2}{2}\) column.
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- THE DIVINING ROD. By R. W. Raymond. U. S. G. S., Mineral Resources, 1882, vol. 17. 17 pages.
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- MINING DISCOVERY: The Divining Rod. Min. Mag, vol 10, p. 51. 3 pages.
- See also first volume of INDEX.

Value of Mines: Sampling and Estimation of Mines; Ore Reserves, Ore in Sight, Mine Reports, Etc.

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- Graphic Methods for Mine Valuation. By H. C Jenkins Min. Mag, London, vol 2, p 287 6 columns. I
- THE COMPUTATION OF THE PRESENT VALUE OF DEVELOPED AND UNDEVELOPED MINES. By W. H. Goodchild. T I M & M, vol 18, p 367. 46 pages D.
- Ore-Valuation of Gold Mines T. A I M. E., vol 39, p. 685. 9 pages I
- See also Value of Ore and Its Determination.
- ESTIMATE OF TONNAGE OF ORE AND STRIPPING M. & M, vol. 29, p 344 11 columns.
- COMPUTING TONNAGE FROM VOLUME OF ORE REMOVED. By S. L Lefevre and G. C Stoltz. E. & M. J., vol. 87, p. 350. 13 columns. I.
- THE VALUATION OF PUBLIC LANDS: The Value of Coal Land. By G. H. Ashley U. S. G. S, Bull 424. 75 pages. 1910.
- DEPTH AND MINIMUM THICKNESS OF BEDS (COAL) AS LIMITING FACTORS IN VALUATION. By C A. Fisher. U. S. G S., Bull 424 75 pages. 1910.
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- CALCULATING VALUE IN PLACER GROUND By O H. Packer. Min. & Sci. Press, vol 101, p 810. 3½ columns. D.

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- RATIO OF VALUE TO DEPTH. Min & Sci Press, vol. 101, p. 495. \$\frac{2}{3}\$ column.
- Persistence in Depte of Treadwell Ores. U. S. G. S., Bull. 259, p 79. ²/₂ page.
- THE FACTORS THAT CONTROL THE DEPTH OF ORE DEPOSITS By J. W. Gregory T. Au. I. M. E, vol. 8, pt. 2, p. 127. 28 pages.

- Lives of Mines. Min & Sci Press, vol. 97, p. 456. 27 columns.
- LIFE OF RAND MINES E. & M. J., vol 90, p 543 1 column
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- DECREASE IN VALUE OF ORE WITH DEPTH, AT KALGOORLIE, WEST AUSTRALIA E. & M. J, vol. 85, p. 196. Table.
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- PRELIMINARY DEVELOPMENT WORK. By A. M. Bateman. J. C. M. I., vol. 13, p. 621. 10½ pages I.
- THE MISPLACEMENT OF MINING SHAFTS AND ADITS IN VICTORIA. By S Hunter. T Au I M. E., vol. 10, p. 326 14 pages. I.
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- Size and Depth of Some Shafts in America. M. & M, vol. 29, p. 392. ½ column.
- CIRCULAR VS. RECTANGULAR SHAFT SINKING. By H M. Payne. E & M. J., vol. 89, p 231. 5 columns. I.
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- THE SYSTEMATIC DEVELOPMENT OF A COAL MINE. By W. Leckie. E & M J, vol 85, p. 863 11 columns. I.
- Systematic Development in Pittsburg Seam. By F. Z Schellenberg. E & M J, vol 90, p 521 11 columns. I.
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- DEVELOPMENT IN THE PITCHING COAL SEAMS OF HAZLETON DISTRICT. Coal Mining Supplement, E & M. J., vol. 88, p. 25. $\frac{3}{2}$ column. I
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- DEVELOPMENT OF THE MIAMI COPPER MINES. M & M, vol. 30, p 82. 1 column I.
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- DEVELOPMENT AT THE COMBINATION MINE Min & Sci Press, vol. 95, p 435. 6 columns I
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- METHOD OF DEVELOPMENT IN THE TREADWELL MINES. Min. & Sci. Press, vol. 97, p 85 4 columns I.
- METHODS OF DEVELOPMENT ON THE RAND T. Au. I. M E., vol 5, p 46 3½ pages.
- THE DEEP SHAFTS OF THE RAND T. Au. I. M E, vol 5, p. 44. 2½ pages. See also DEEP MINING.
- DEVELOPMENT IN THE RAND MINES. P C. M. & M. Soc. S. A, vol. 9, p. 86, 1 column, I.; p. 89, 9 columns, I.

- METHOD OF DEVELOPING THE PIL-GRIM'S REST PROPERTY P. C. M. & M. Soc. S. A., vol. 9, p. 296. ½ column I.
- DEVELOPMENT OF THE ST. JOHN DEL REY MINES IN BRAZIL. Min. Mag, London, vol. 3, p. 465. 1 column. I.
- DEVELOPMENT OF THE EUGENE MINE, KOOTENAY, BRITISH COLUMBIA. E. & M J, vol 89, p. 420. 1 column I.
- THE DEVELOPMENT OF AN ORE SHOOT IN NOVA SCOTIA By E. P. Brown. J. M Soc. N S, vol 12, p. 57. 4½ pages. I.
- DEVELOPMENT AT THE GRANBY MINES. J C M I, vol 11, p. 394. 6½ pages. I.
- SHAFTS AT THE MOUNT MORGAN MINE. E & M J, vol 87, p. 751 12 columns.
- DEVELOPMENT IN THE MEXICAN MINE, COMSTOCK LODE Min & Sci Press, vol. 100, p 420 2 columns. I.
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- METHOD OF DEVELOPMENT EMPLOYED AT THE LOS PILARES MINE, MEXICO M & M, vol 31, p 107. 1 column. I.
- DEVELOPMENT AT THE ESPERANZA MINE, EL ORO, MEXICO. By W E. Hindry. Min & Sci Press, vol. 99, p. 822. 7 columns I
- METHOD OF DEVELOPMENT AT THE ESPERANZA MINE, MEXICO. Min. & Sci Press, vol. 99, p. 846. 1 column
- A MINING PUZZLE: Exploration at Broken Hill, NEW SOUTH WALES. By N. Dudley. T. Au. I. M. E., vol. 2, p. 111. 3 pages.
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Shaft Sinking: Processes, Applications, Rate of Sinking, Raises, Winzes, Etc.

- Modern Shaft Sinking. By F Donaldson M. & M, vol 29, p 392, 3\frac{1}{2} columns; p 459, 10 columns, I, p 515, 7\frac{1}{2} columns, I.; p. 563, 6\frac{1}{2} columns, I; vol. 30, p. 124, 9\frac{1}{2} columns, I; p. 218, 5\frac{1}{2} columns, I; p. 332, 5\frac{1}{2} columns, I; p 404, 5\frac{1}{3} columns, I.; p 632, 5\frac{1}{2} columns, I.
- SHAFT SINKING. By C K. Colvin. Min. & Sci. Press, vol 85, p. 191. 2 columns
- IMPROVED SHAFT SINKING METHODS AT DUCKTOWN. By W. Y. Westervelt. E. & M. J., vol. 89, p. 275. 3½ columns I
- Notes on Vertical Shaft Sinking on the Witwatersrand. By H. F. Roche. P C. M & M. Soc. S. A., vol. 5, p 200, 8 columns, I.; p 259, 7½ columns; p. 312, 3½ columns; vol. 6, p. 17, 3 columns.
- Sinking the Woodward No. 3 Shaft. By R. V. Nortis E. & M J, vol 89, p 1182 12½ columns. I
- THE GIROUX SHAFT AT KIMBERLY, NEVADA. By C E Arnold. E & M J, vol 89, p 1325 5 columns. I.
- SHAFT SINKING AT THE GIROUX, ELY, NEVADA. Min. & Sci Press, vol. 100, p. 826 1 decolumns.
- THE SINKING AND EQUIPMENT OF THE LITTLETON COLLIERIES. By T H. Bailey T. I. M E, vol. 39, p. 418. 38 pages. I.
- SINKING INTO THE LOWER COAL-MEASURE AT HULTON COLLEBEY. By A J Tonge T I M. E., vol. 39, p. 350. 12½ pages. I.
- The Sinking of the Asttey Green Shafts, at Asttey, Near Manchester, by Means of the Dropshaft Method and Underhanging Tubbing. By C. Pilkington and P. L. Wood. T. I. M. E., vol. 39, p. 529. 25 pages. I.

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- Sinking Operations at Wellesley New Fitting, Wemyss Collieries. By G. D. Budge and P. Dunsire. T. I. M. E., vol. 36, p. 318. 6½ pages I.
- SINKING AND TIMBERING OF THE ALLAN SHAFTS, NEAR STELLABTON, NOVA SCOTIA. By H E Coll J. M. Soc. N. S., vol 12, p. 12 12 pages I
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- Sinking Through Bad Ground. By F. W. Adgate. Min. & Sci. Press, vol. 95, p. 183. 4½ columns. I
- SHAFT SINKING IN SOFT GROUND BY FORE-POLING. M. & M, vol 29, p. 515 2 columns. I.
- SHAFT SINKING THROUGH FAULTED GROUND. E. & M. J, vol. 87, p 215. 12 columns.
- SHAFT SINKING IN DANGEROUS
 GROUND. Min. Mag., London, vol.
 2, p. 293. 2 columns: I
- Sinking a Wet Shaft at Tomestone. By E. W. Walker. Min. & Sci. Press, vol 98, p 284. 3 columns. I.
- Sinking Through Sand at New-Biggin Colliery By E. M. Bainbridge and W M. Redfeam T. I. M E, vol. 38, p. 577. 16 pages. I.

- SHAFT SINKING IN QUICKSAND AND BOULDERS By G W. Stuart. J. M Soc N. S, vol. 11, p. 69 5½ pages.
- Shaft Sinking by Cementation. By L. Morin. E. & M. J., vol. 86, p. 221. 6 columns I.
- See also SHAFT LINING.
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- Sinking a Shaft with Drop-Shaft and Air-Lock. Sch. Mines Quart., vol. 31, p. 219. 5 pages. I.
- THE DROP-SHAFT METHOD OF SINK-ING. E & M. J., vol. 90, p. 918. 42 columns. I.
- SHAFT SINKING BY CAISSONS OR DROF-SHAFTS. M. & M., vol. 29, p. 517. 3½ columns. I.
- SPECIAL METHODS OF SHAFT SINKING. P. C. M. & M. Soc. S. A, vol. 8, p. 64. 2½ columns.
- Driving a Long Vertical Raise. By C T. Kriebel. M & M, vol 30, p. 282. 2 columns. I.
- Sinking a Winze with Long Holes. By G C. McFarlane. E. & M J., vol. 86, p. 713. 1½ columns. I.
- LONG-HOLE SYSTEM OF SHAFT SINKING. E. & M. J., vol. 85, p. 659. ½ column.
- See also Use of Bore Holes, Diamond and Rotary Drills, and Churn Drills.
- THE USE OF THE CHANNELING MA-CHINE IN MINING OPERATIONS: A Proposed Method. Min. & Sci. Press, vol. 101, p. 707. 5 columns. I.
- DRIVING VERTICAL RAISES WITH STOP-ING DRILLS By A. O. Christensen. E & M. J., vol. 88, p. 937. 2½ columns I.
- DRIVING INCLINED RAISES WITH STOP-ING DRILLS By A. O. Christensen. E. & M. J., vol. 88, p. 618. 2 columns I.

- DRIVING A SLOPE IN NEWFOUNDLAND M & M., vol. 31, p 569 7 columns I
- Boring Large Shafts. Min & Sci. Press, vol 20, p 257, 2 columns, I; p. 272, 1½ columns, I
- THE KIND-CHAUDRON BORING PROCESS FOR SHAFT SINKING M & M, vol. 30, p. 332 5½ columns. I.
- Sinking by Means of Underhanging Tubbing E. & M. J., vol 89, p. 878. 4½ columns. I.

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- SHAFT SINKING BY FREEZING PROCESS. By S. F. Walker. M. & M., vol. 30, p 41. 7\frac{1}{2} columns.
- EXTENSION OF A COLLIERY WORKING SHAFT By M. S. Hachita E. & M. J., vol. 90, p. 1168. 6½ columns. I
- DRILLING IN SHAFT SINKING ON THE RAND. E. & M. J, vol 85, p 393. 1 column.
- See also DRILLING AND BORING.
- THE SINKING OF CIRCULAR SHAFTS. By Robert Steven T. I. M. E, vol 38, p. 22. 6 pages. I.
- See also DEVELOPMENT' Size, Shape, etc., of Shafts.
- Note on a Problem During Shaft Sinking. By C. B Saner. P. C M. & M. Soc. S A, vol 9, p. 70, 8 columns, I; p. 303, 4½ columns, I.
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- RAPID SHAFT SINKING IN BUTTE BY C. J. Stone. E & M. J, vol 90, p 107. 2 columns.
- RECORD OF SHAFT SINKING AT No. 1 SKY LINE MINE. Min. & Sci Press, vol. 88, p. 40. Table.
- NEW SHAFT SINKING RECORD AT CORBIN, MONTANA By F. J Tuck. Min. & Sci. Press, vol. 101, p 406. 14 columns.
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- See also Hoisting Buckets, and Skips for Raising Mineral.
- VERTICAL CURVES IN SHAFTS. By S. Smille. E. & M. J, vol 90, p. 1000. 5 columns. I
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- ARRANGEMENT OF HOLES IN SHAFT SINKING, ALLAN SHAFTS, NOVA SCOTIA. J. M Soc. N. S, vol. 12, p 22. I.
- See also Arrangement of Holes in Blasting
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- See also Ropes, Chains, Couplings, etc., and Development.

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- THE VARIOUS MODES IN WHICH COAL IS WORKED IN ENGLAND, AND AN EXAMINATION OF THE PRACTICE IN DIFFERENT DISTRICTS By J K. Blackwell Min. Mag., vol 1, p. 559, 12 pages; p. 3, 10 pages.
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- Some Remarks on Coal Mining. By J Marlor Min Mag, vol. 5, p 415, 4 pages, p 458, 10½ pages, vol. 6, p 27, 13½ pages; p. 107, 10 pages; p 213, 12½ pages; p 323, 10 pages
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- COAL MINING AT DANTE, VIRGINIA.

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- METHOD OF MINING COAL IN WASH-INGTON M & M, vol. 30, p. 17. 1 column. I.
- METHODS OF MINING COAL IN WEST VIRGINIA. M. & M., vol. 29, p 509. 11½ columns. I.
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- On the Working of Thin Seams of Coal, with Observations on Long-wall and Bord-and-Pillar Work. By C. C. Greenwell. Min. Mag., vol. 9, p 413, 6 pages, p. 494, 12½ pages.
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- CAVING METHODS IN THE ARIZONA COPPER MINES: Top-Slice and Sub-Drift Methods. Min & Sci Press, vol 99, p. 392 1½ columns. I.
- THE MITCHELL SLICING SYSTEM AT BISBEE, ARIZONA By M. J. Elsing. E. & M. J., vol. 90, p. 174. 6 columns. I.
- THE MITCHELL SLICING SYSTEM AT BISBEE, ARIZONA. E. & M J, vol. 90, p. 1291 2½ columns
- THE TOP-SLICE SYSTEM AT METCALF, ARIZONA E. & M. J., vol. 90, p. 120. ½ column. I.
- BLOCK-CAVING AT THE CLIFTON-Mo-RENCI MINES. Min & Sci. Press, vol. 101, p. 835. 1 column. I
- THE CAVING SYSTEM OF MINING EM-PLOYED AT MIAMI, ARIZONA M & M., vol. 30, p. 755 4 columns I.
- THE CAVING METHOD EMPLOYED AT MIAMI, ARIZONA. M. & M., vol 30, p. 83. 1 column. I.
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- CAVING AT BINGEAM CANYON, UTAH. Min. & Sci. Press, vol. 98, p. 520, 3 columns, I.; p. 555, 3 columns, I.
- THE CAVING SYSTEM OF MINING AT ELY, NEVADA. M. & M., vol. 29, p. 25, \(\frac{1}{4}\) column; p. 83, \(\frac{1}{2}\) column.
- IRON MINING IN MINNESOTA By E. K Soper. Min. & Sci. Press, vol 101, p. 767. 5½ columns. I
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- A WATER WHEEL GOVERNOR AND ITS OPERATION. By D. B. Riplogle Min. & Sci Press, vol. 97, p 331. 3½ columns. I.
- SPEED REGULATION OF HIGH-HEAD WATER WHEELS. By H S. Knowlton E & M J, vol 85, p. 362. 4½ columns.
- See also WATER POWER PLANTS, ETC., and first volume of INDEX.

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- THE UTILIZATION OF ANTHRACITE COAL FOR THE GENERATION OF ELEC-TRICITY. By J. Clark. E & M. J., vol. 88, p. 1175. 1½ columns.
- THE ELECTRICAL EQUIPMENT OF GOLD MINES. By H. J. S. Heather. T. I. M & M., vol 17, p. 378, 48 pages, I.; p 444, 19 pages, I., p. 528, 3½ pages.
- HYDRO-ELECTRIC POWER PLANTS IN CANADA. T I M. & M, vol 18, p. 191. 4 pages.

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- A STORAGE BATTERY EXTENSION TO A THREE-PHASE COLLIERY POWER-PLANT By W. Maurice. T. I. M. E, vol 39, p. 601. 17 pages. I.
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- DIRECT CURRENT MOTORS. By W. B. Clarke. M. & M., vol 29, p 88, 7 columns, I.; p. 112, 4 columns, I
- ELECTRIC POWER FOR CEMENT PLANTS. By J. B. Porter. E. & M. J., vol. 86, p. 80. 1½ columns.
- HEATING OF CONDUCTORS BY ELECTRIC CURRENTS By S. F. Walker. E. & M. J., vol. 86, p. 177. 2 columns.

- NOVEL AUTOMATIC SWITCH By C. S. Beach M. & M., vol 30, p. 566. 2½ columns. I.
- A USEFUL BANK OF LAMPS By L E. Brown E & M. J., vol. 89, p. 859. 2 columns I.
- EXPLOSIONS IN SWITCH BOXES By S. F Walker. E. & M. J., vol 88, p. 166. 12 columns.
- See also Cause of Accidents, Electricity in the Mines, The Electric Power Plant, Etc., and Cost of Power.

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- ELECTRICITY IN MINING. By W C. Wagner M & M., vol 31, p. 756. 6 columns. I.
- MODERN APPLICATIONS OF ELECTRICITY TO MINES P. C M & M. Soc S. A., vol 8, p. 95. 1½ columns.
- SAFE USE OF ELECTRICITY IN MINES. By G. R. Wood. M & M, vol 30, p 33. 5 columns.
- Application of Electricity in Mines. By G. Harrison. M & M., vol 30, p 164. 2²/₁ columns
- ELECTRICITY IN MINES By T. J. McKavanagh. J. M. Soc. N. S., vol. 13, p. 75. 8 pages.
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- ELECTRICAL WIRING FOR DEEP MIN-ING WORK. E. & M. J., vol. 88, p. 837. 2 columns.

- TROLLEY WIRE SUPPORT FOR MINES.
 M. & M, vol. 31, p. 32. 1½ columns. I
- ELECTRICAL EQUIPMENT OF THE BUTTE BALAKLAVA MINE By A. F. Bushnell. E & M. J., vol 86, p. 714. 2½ columns. I.
- THE USES OF ELECTRICITY IN MINING WITH SPECIAL REFERENCE TO THE ELECTRICAL OPERATIONS AT MOUNT MORGAN. By E H. Hewlett. T. Au. I. M. E, vol. 6, p 226. 21 pages. D.
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- ELECTRICAL POWER AT MEXICAN MINES AND MILLS. By C. V. Allen E. & M. J, vol 88, p 690. 7 columns. I.
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- COAL MINE EQUIPMENT. By W. S. Meyers. M & M, vol 30, p. 731. 4 columns.
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- Is the Electric Current Safe in Coal Mines? By R. N. Hosler. E. & M J, vol 86, p. 29 7 columns.
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- ELECTRICITY AT THE SHAMROCK I AND II COLLIERY, HERNE, WESTPHALIA, GERMANY. By H. M. Hudspeeth. T. I. M. E., vol. 39, p. 249. 17 pages. I.

- THE USE OF ELECTRICITY IN THE BRITISH COLUMBIA COAL MINES. E. & M. J., vol. 89, p. 1074. 52 columns.
- THE ELECTRIFICATION OF MURTON COLLIERY, COUNTY DURHAM BY E. S Wood. T I M E, vol. 39, p. 226. 22 pages. I
- EXPERIMENTS WITH TWO ELECTRICALLY DRIVEN PUMPS. By T L. Galloway. T I. M. E., vol. 36, p. 82. 11 pages.
- See also ROTARY PUMPS and ELEC-TRICALLY DRIVEN PUMPS.

- See also Electric Hoisting and Electric Haulage.
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- THE DEVELOPMENT AND OPERATION OF A LARGE ELECTRIC TRANSMISSION AND CONVERSION SYSTEM. By E. F. Smith. J. W Soc. E., vol 12, p. 409. 29 pages. I.
- See also ELECTRICITY IN THE MINE, and first volume of INDEX, also Cost of Power.

REDUCTION

The Reduction of Ores: Methods and Practice

- ORE CRUSHING P C. M. & M Soc. S A, vol. 9, p. 62. ½ column.
- CRUSHING ORE By M. P. Bass. Min & Sci. Press, vol. 96, p. 354. 13 columns. I.
- THE MECHANICS OF ORE CRUSHING. By C. De Kalb. Min & Sci Press, vol. 96, p. 155. 2½ columns I
- CRUSHING BY STAGES By A Del Mar Min & Sci. Press, vol 101, p 614. 2½ columns
- STAGE CRUSHING. By H W Hardinge E. & M. J, vol 89, p 221. 3 columns.
- NOVEL HAND CRUSHING DEVICE BY H. L. Jene E & M. J., vol. 87, p 788. 1½ columns. I.
- Breaking Ore by Trip Hammer, El Cobre, Cuba. M. & M, vol. 31, p. 451. I.
- ECONOMY OF POWER IN CRUSHING ORE. By E. A. Hersam. Min. & Sci. Press, vol. 95, p. 621. 12 columns.
- THE CALCULATION OF THE COMPARATIVE EFFICIENCIES OF CRUSHING
 AND GRINDING MACRINES. By R.
 W Chapman T. Au. I. M. E,
 vol. 13, p. 154. 4 pages. I.

- On Testing Reducing Machinery. By F D. Power. T. Au I. M. E, vol. 2, p. 81. 3½ pages
- Some Notes on Dry Crushing By N. F. White T Au. I. M. E, vol. 6, p 37. 24 pages. I.
- THE RISE AND FALL OF DRY CRUSHING ON THE HAURAKI GOLDFIELD. By P Morgan. T Au. I M. E., vol. 9, p. 161. 15 pages.
- PRACTICAL NOTES ON DRY CRUSHING MILLS IN WESTERN AUSTRALIA P. C. M. & M. Soc. S. A., vol. 10, p. 222. 5 columns.
- DRY CRUSHING AT THE CONSOLIDATED MERCUR MINES. E. & M. J, vol. 89, p. 1277. 1 column.
- See also Fine Crushing by Mills.
- WESTRALIAN WET CRUSHING PLANTS, WITH SOME NOTES ON LABOUR EFFICIENCY. By G. W. Williams. P. C. M. & M. Soc. S. A, vol. 8, p. 232, 14½ columns; p. 277, 1½ columns; p. 345, 1½ columns; p. 383, 1½ columns; vol. 9, p. 24, 1 column; p. 270, 4 columns.
- REDUCTION OF ORES IN THE BARBERTON GOLDFIELD, SOUTH AFRICA.
 P. C M. & M. Soc. S. A., vol 10, p. 130. 2 columns.

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"BATTLE-BOX" FOR CLEANING FINE BARITE T. A. I M. E., vol. 40, pp. 731 and 732. I.

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UTAH By L S. Austin. Mm. &
Sci. Press, vol. 100, p. 123. 3 columns. I.

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- LIMITATIONS OF ONE AND FIVE STAMP BATTERIES By A. Del Mar. Min & Sci Press, vol 100, p 640. 3\frac{2}{3} columns
- Power Required for Stamps. Min. & Sci. Press, vol. 100, p 222 ½ column. D.
- Position of Driving Power for STAMP MILLS. By A. Del Mar. E. & M. J., vol. 89, p. 7 ½ column. I.
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- STAMP MILL PRACTICE ON THE MOTHER LODE By A. Chalmers. Min & Sci Press, vol. 97, p. 785. 12 columns.
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- GRINDING ORES AND MINERALS. Min. & Sci. Press, vol. 101, p. 176. 1 column.
- Efficiency of Fine Grinding Machines By H. Stadler M & M, vol 30, p. 672 2½ columns.
- THE COMPUTATION OF CRUSHING EFFICIENCY OF FINE GRINDING MACHINES. P. C. M. & M. Soc. S A, vol. 10, p. 374. 3 columns.
- CRUSHING EFFICIENCY OF FINE GRIND-ING MACHINES. By H. Stadler. Mm. & Sci. Press, vol 100, p. 900. 1² columns.
- GRINDING TESTS AT PACEUCA. By V. B Sherrod. Min & Sci. Press, vol. 100, p 357. 6 columns. I.
- Ball Mill for Dry Crushing. T. Au. I. M. E., vol. 6, p. 45, 2 pages; p. 53, 6 pages, I.
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- Some of the Characteristics of Chilean Mills. By H A Megraw. E & M. J., vol 90, p 967. 7 columns. I.
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- THE LAND MILL: A Slow-speed Edge Mill. E & M J, vol. 85, p. 1053. 2 columns I.
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- See also The Reduction of Ores: Erc.

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- A CONICAL TUBE MILL. By H. W. Hardinge. Min. & Sci. Press, vol. 96, p. 223. 3½ columns I.
- THE HARDINGE CONICAL PEBBLE MILL By H. W. Hardinge. M. & M, vol. 29, p. 160 3 columns. I
- THE HARDINGE CONICAL PEBBLE
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- Tube Mill Lining. By H. E. West. Min. & Sci. Press, vol. 96, p. 418. 4 columns. I.
- LINING FOR TUBE MILL. Min & Sci. Press, vol. 95, p. 466. 2 column. I.
- FINE GRINDING TESTS: Tube Mill and Grinding Pans, Broken Hill South Mine. By W. E. Wainwright and W J. M'Bride. T Au. I. M. E., vol. 13, p. 38. 20 pages. I.

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- M J, vol 87, p 712. 4 columns. Map.
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- On the Durability of Railroad Iron. By W. Truran. Min. Mag., vol. 4, p 248, 10 pages, vol. 5, p. 291, 2 pages.
- STANDARD RAIL SECTIONS AND FISH BAR JOINTS. By W. R. Jones. P. E. Soc W. Pa., vol. 3, p. 33. 21 pages. I.
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- witz. E & M J, vol. 88, p. 912. 9 columns. I.
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- PRINCIPLES AND CONDITIONS OF THE MOVEMENTS OF GROUND WATER. By F. H King. U. S. G. S, 19th Ann. Rept, pt. 2, pp. 59-294. 1897-98. I
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U. S. G. S. Publication.	Partially indexed	Completed to Jan 1, 1911	Water supply papers

It has been found impracticable to index all subjects considered in the references given in this work, but it is hoped that the present index will prove to be amply exhaustive to give ready access to any desired information.

Under Districts the countries, states, etc, as well as the various materials are grouped in alphabetical order, and similarly under Geology and Ore Deposits, which is evident on careful examination, although it is not always indicated by the subheadings.

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